RADIO AMATEUR

DX GUIDE

INTERNATIONAL DX LOG
GREAT CIRCLE MAPS
WORLD WIDE QSL BUREAUS
GREAT CIRCLE BEARINGS
TIME CONVERSION CHART
OFFICIAL ARRL COUNTRIES LIST
AIR LINE DISTANCES
INTERNATIONAL Q SIGNALS
RADIO AMATEUR PREFIX MAPS
DX CONTEST LOG
COMPASS FOR BEAM INDICATOR
STANDARD TIME THROUGHOUT THE WORLD
POSTAL INFORMATION
ARRL SECTION MAP

one fifty

RADIO AMATEUR DX GUIDE

In presenting the Radio Amateur DX Guide for use by the radio amateur, the publishers have endeavored to include information not easily obtained elsewhere.

It will be noted that each page is perforated, so that it can be removed and mounted under glass or on the wall of the ham shack.

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DX CONTEST AND FIELD DAY LOG

INTERNATIONAL DX LOG

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
AC3	SIKKIM					
AC4	TIBET					
AG2	TRIESTE					
AP	PAKISTAN					
C	CHINA					
C3	FORMOSA					
C9	MANCHURIA					
CE	CHILE					
CE7	ANTARCTICA					
CEØ	EASTER ISLAND					
CM, CO	CUBA					
CN2	TANGIER ZONE					
CN8	FRENCH MOROCCO					
CP	BOLIVIA					
CR4	CAPE VERDE ISLANDS					
CR5	PORTUGUESE GUINEA					
CR5	PRINCIPE, SAO THOME					
CR6	ANGOLA					
CR7	MOZAMBIQUE					
CR8	GOA (Portuguese India)					
CR9	MACAU					
CR10	PORTUGUESE TIMOR					
CT1	PORTUGAL					
CT2	AZORES ISLANDS					
CT3	MADERIA ISLANDS					
CX	URUGUAY					
DJ, DL, DM	GERMANY					
DU	PHILIPPINE ISLANDS					
EA	SPAIN					
EA6	BALEARIC ISLANDS					
EA8	CANARY ISLANDS					
EA9	IFNI					
EA9	RIO DE ORO					
EA9	SPANISH MOROCCO					
EAØ	SPANISH GUINEA					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
EI	IRELAND					
EL	LIBERIA					
EQ	IRAN					
ET2	ERITREA					
ET3	ETHIOPIA					
F	FRANCE					
FA	ALGERIA					
FB8	Amsterdam & St. Paul Is.					
FB8	KERGUELEN ISLANDS					
FB8	MADAGASCAR					
FC	CORSICA					
FD	FRENCH TOGOLAND					
FE8	FRENCH CAMEROONS					
FF8	FRENCH WEST AFRICA					
FG	GUADELOUPE					
FI8	FRENCH INDO-CHINA					
FK8	NEW CALEDONIA					
FKS8	AUSTRIA					
FL8	FRENCH SOMALILAND					
FM	MARTINIQUE					
FN	FRENCH INDIA					
FO8	CLIPPERTON ISLAND					
FO8	French Oceania (Tahiti)					
FP8	St. Pierre & Miquelon Is.					
FQ8	French Equatorial Africa					
FR7	REUNION ISLAND					
FU8, YJ	NEW HEBRIDES					
FY7	French Guiana & Inini					
G	ENGLAND					
GC	CHANNEL ISLANDS					
GD	ISLE OF MAN					
GI	NORTHERN IRELAND					
GM	SCOTLAND					
GW	WALES					
HA	HUNGARY					
HB1, 9	SWITZERLAND					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
HC	ECUADOR					
HC8	GALAPAGOS ISLANDS					
HE	LIECHTENSTEIN					
HH	HAITI					
HI	Dominican Republic					
HK	COLOMBIA					
HKØ	SAN ANDRES ISLAND					
HL	KOREA					
HP	PANAMA					
HR	HONDURAS					
HS	SIAM					
HV	VATICAN CITY					
HZ	SAUDI ARABIA					
I1	ITALY					
I1	TRIESTE					
I5	ITALIAN SOMALILAND					
IS1	SARDINIA					
JA, ~~KA~~	JAPAN	23Jun57	JA8AA	14mc	✓	✓
JY	JORDAN					
K, W	United States of America	5Sept58	W7SWC	7mc	✓	✓
KA	JAPAN					
KAØ	Bonin & Volcano Islands					
KB6	Baker, Howland and American Phoenix Islands					
KC4	NAVASSA ISLAND					
KC6	CAROLINE ISLANDS					
KC6	PALAU ISLANDS					
KG4	GUANTANAMO BAY					
KH6	HAWAIIAN ISLANDS	14Nov58	KH6CRT	14-	✓	✓
KJ6	JOHNSTON ISLAND					
KL7	ALASKA	28Feb58	KL7AMR	7mc	✓	✓
KG6	MARIANA ISLANDS					
KM6	MIDWAY ISLANDS					
KP4	PUERTO RICO					
KP6	Palmyra Group, Jarvis Is.					
KR6	RYUKYU ISLANDS					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
KS4	SWAN ISLAND					
KS6	AMERICAN SAMOA					
KT1	TANGIER ZONE					
KV4	VIRGIN ISLANDS					
KW6	WAKE ISLAND					
KX6	MARSHALL ISLANDS					
KZ5	CANAL ZONE					
LA, LB	JAN MAYEN ISLAND					
LA, LB	NORWAY					
LA, LB	SVALBARD (Spitzbergen)					
LU	ARGENTINA					
LX	LUXEMBOURG					
LZ	BULGARIA					
M1	SAN MARINO					
MB9	AUSTRIA					
MD5	EGYPT					
MF2	TRIESTE					
MP4	BAHREIN ISLAND					
MP4	KUWAIT					
MP4	QATAR					
MP4	TRUCIAL OMAN					
MS4	ITALIAN SOMALILAND					
OA	PERU					
OD5	LEBANON					
OE	AUSTRIA					
OH	FINLAND					
OK	CZECHOSLOVAKIA					
ON4	BELGIUM					
OQ5, Ø	BELGIAN CONGO					
OX	GREENLAND					
OY	FAEROES					
OZ	DENMARK					
PJ2	Netherland West Indies					
PAØ	NETHERLANDS					

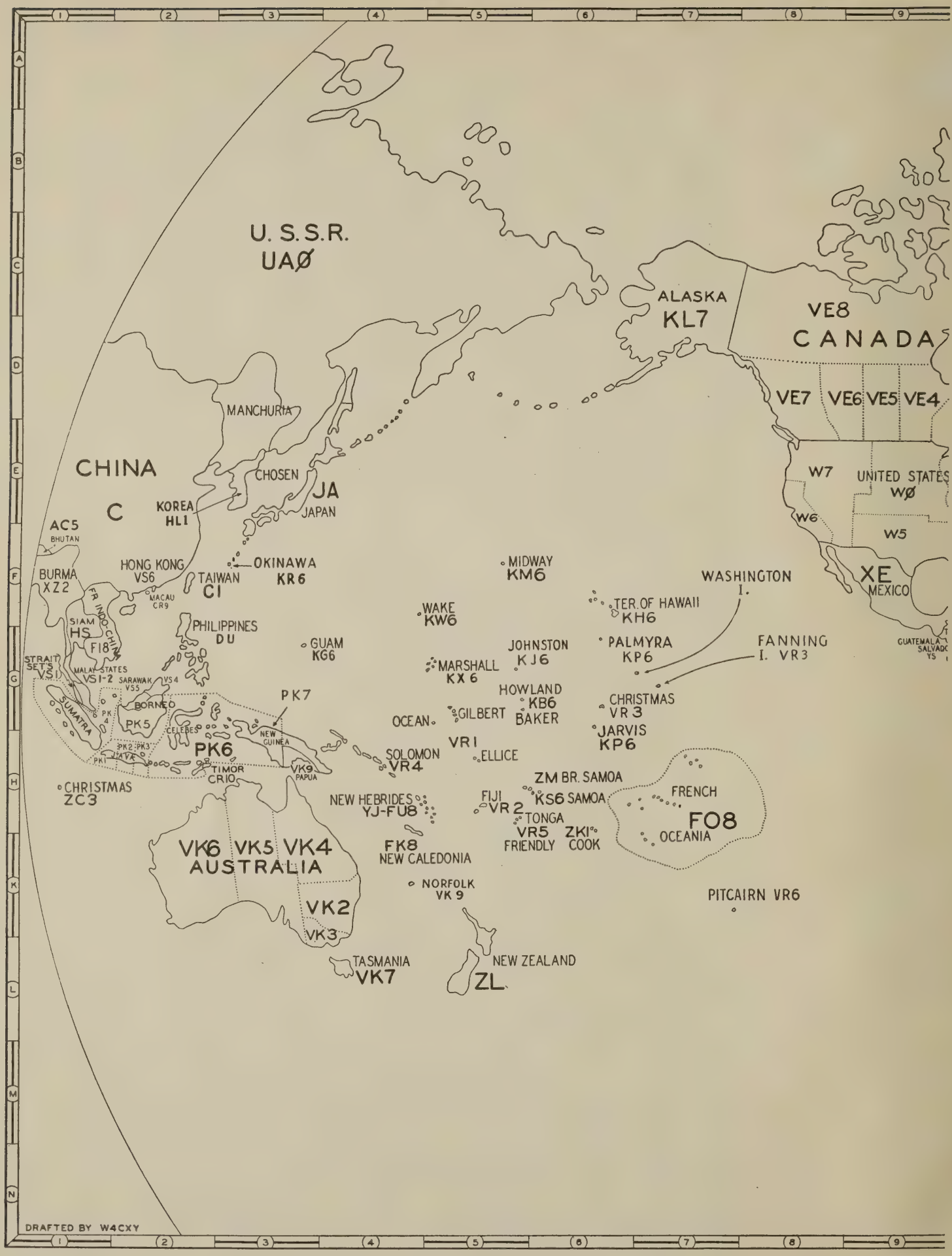
PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
PK1, 2, 3	JAVA					
PK4	SUMATRA					
PK5	Netherlands Borneo					
PK6	Celebes & Molucca Islands					
PK6, 7	Netherlands New Guinea					
PX	ANDORRA					
PY	BRAZIL					
PZ1	NETHERLANDS GUIANA					
SM	SWEDEN					
SP	POLAND					
ST	Anglo-Egyptian Sudan					
SU	EGYPT					
SV	GREECE					
SV	CRETE					
SV	DODECANESE ISLANDS					
TA	TURKEY					
TF	ICELAND					
TG	GUATEMALA					
TI	COSTA RICA					
TI9	COCOS ISLAND					
UA1, 3, 4, 6	European Russian Socialist Federated Soviet Republic	23MAR59	4A3TP	14 -	✓	
UA9, Ø	Asiatic Russian S. F. S. R.					
UB5	UKRAINE					
UC2	White Russian Soviet Socialist Republic					
UD6	AZERBAIJAN					
UF6	GEORGIA					
UG6	ARMENIA					
UH8	TURKOMEN					
UI8	UZBEK					
UJ8	TADZHIK					
UL7	KAZAKH					
UM8	KIRGHIZ					
UN1	Karelo-Finnish Republic					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
UO5	MOLDAVIA					
UP2	LITHUANIA					
UQ2	LATVIA					
UR2	ESTONIA					
VE, VO	CANADA	31 OCT 58	VE6LP	7050	✓	✓
VK	AUSTRALIA					
VK1	COCOS ISLANDS					
VK1	HEARD ISLAND					
VK1	MACQUARIE ISLAND					
VK9	NORFOLK ISLAND					
VK9	PAPUA TERRITORY					
VK9	Territory of New Guinea					
VO	CANADA					
VP1	BRITISH HONDURAS					
VP2	LEEWARD ISLANDS					
VP2	WINDWARD ISLANDS					
VP3	BRITISH GUIANA					
VP4	TRINIDAD & TOBAGO					
VP5	CAYMAN ISLANDS					
VP5	JAMAICA					
VP5	Turks & Caicos Islands					
VP6	BARBADOS					
VP7	BAHAMAS ISLANDS					
VP8	ANTARCTICA					
VP8	FALKLAND ISLANDS					
VP8	SOUTH GEORGIA					
VP8, LU-Z	South Orkney Islands					
VP8	South Sandwich Islands					
VP8, LU-Z	South Shetland Islands					
VP9	BERMUDA ISLANDS					
VQ1	ZANZIBAR					
VQ2	NORTHERN RHODESIA					
VQ3	Tanganyika Territory					
VQ4	KENYA					
VQ5	UGANDA					
VQ6	British Somaliland					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
VQ8	CHAGOS ISLANDS					
VQ8	MAURITIUS					
VQ9	SEYCHELLES					
VR1	Gilbert & Ellis Islands & Ocean Island					
VR1	British Phoenix Islands					
VR2	FIJI ISLANDS					
VR3	FANNING ISLAND					
VR4	SOLOMON ISLANDS					
VR5	Tonga (Friendly) Islands					
VR6	PITCAIRN ISLAND					
VS1	SINGAPORE					
VS2	MALAYA					
VS4	SARAWAK					
VS5	BRUNEI					
VS6	HONG KONG					
VS9	ADEN & SOCOTRA					
VS9	MALDIVE ISLANDS					
VS9	SULTANATE OF OMAN					
VU2	INDIA					
VU4	LACCADIVE ISLANDS					
VU5	Andaman & Nicabar Islands					
W	United States of America					
XE	MEXICO	4JUN57	XE7CH	7mc	✓	✓
XZ2	BURMA					
YI	IRAQ					
YJ	NEW HEBRIDES					
YK	SYRIA					
YN	NICARAGUA					
YO	ROUMANIA					
YS	SALVADOR					
YU	YUGOSLAVIA					
YV	VENEZUELA					
ZA	ALBANIA					
ZB1	MALTA					
ZB2	GIBRALTAR					

PREFIX	COUNTRY	DATE	STATION	FREQUENCY	QSL	
					Sent	Rec'd
ZC2	COCOS ISLANDS					
ZC3	CHRISTMAS ISLAND					
ZC4	CYPRUS					
ZC5	British North Borneo					
ZC6	PALESTINE					
ZD1	SIERRA LEONE					
ZD2	NIGERIA					
ZD3	GAMBIA					
ZD4	Gold Coast, Togoland					
ZD6	NYASALAND					
ZD7	ST. HELENA					
ZD8	ASCENSION ISLAND					
ZD9	Tristan da Cunha & Gough Island					
ZE	SOUTHERN RHODESIA					
ZK1	COOK ISLANDS					
ZK2	NIUE					
ZL	NEW ZEALAND					
ZM6	BRITISH SAMOA					
ZP	PARAGUAY					
ZS1, 2, 4, 5, 6	Union of South Africa					
ZS2	MARION ISLAND					
ZS3	SOUTHWEST AFRICA					
ZS7	SWAZILAND					
ZS8	BASUTOLAND					
ZS9	BECHUANALAND					
3A	MONACO					
3V8	TUNISIA					
4S7	CEYLON					
4W1	YEMEN					
4X4	ISRAEL					
5A	LIBYA					
9S4	SAAR					

WORLD MAP SHOWING



RADIO AMATEUR PREFIXES

CHART OF THE WORLD

Showing Great Circle Distances and Azimuths from San Francisco, Cal. to all Points on the Earth's Surface

To find the great circle bearing of any point in the world from San Francisco draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.

SAN FRANCISCO, CALIF.

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	331
AC4	TIBET, Lhasa	331
AG2	TRIESTE	29
AP	PAKISTAN, Karachi	351
C	CHINA, Chungking	319
	Pekin	320
	Shanghai	310
CE	CHILE, Santiago	139
CM	CUBA, Havana	101
CN2	TANGIER ZONE	47
CN8	FRENCH MOROCCO, Casablanca	49
CP	BOLIVIA, La Paz	126
CR4	CAPE VERDE ISLANDS	73
CR5	PORTUGUESE GUINEA	71
CR6	ANGOLA, Nova Lisboa	68
CR7	MOZAMBIQUE, Lourenco Marques	69
	Mocambique	40
CR8	GOA	342
CR9	MACAU	308
CR10	TIMOR ISLAND	275
CT1	PORTUGAL, Lisbon	47
CT2	AZORES	56
CT3	MADERIA ISLANDS	56
CX	URUGUAY, Montevideo	131
DL	GERMANY, Berlin	26
DU	PHILIPPINE ISLANDS, Manila	298
EA	SPAIN, Madrid	42
EA6	BALEARIC ISLANDS	40
EA8	CANARY ISLANDS	58
EA9	SPANISH MOROCCO	47
EI	IRELAND, Dublin	34
EL	LIBERIA, Monrovia	72
EP	IRAN, Tehran	6
ET	ETHIOPIA, Addis Ababa	25
F	FRANCE, Paris	33
FA	ALGERIA, Algiers	41
FB8	MADAGASCAR, Tananarive	29
FC	CORSICA	34
FD8	TOGOLAND	62
FE8	FRENCH CAMEROONS	55
FF8	FRENCH WEST AFRICA, Dakar	70
FG8	GAUDELOUPE	95
FI8	FRENCH INDO CHINA, Saigon	305
FK8	NEW CALEDONIA, Noumea	240
FL8	FRENCH SOMALILAND, Djibouti	19
FM8	MARTINIQUE	96
FO8	FRENCH OCEANIA, Tahiti	209
FP8	MIQUELON and St. PIERRE IS.	57
FQ8	FRENCH EQUATORIAL AFRICA	50
FR8	REUNION ISLAND	9
FT4	TUNISIA, Tunis	57
FU8	NEW HEBRIDES	243
FY8	FRENCH GUIANA, Cayenne	99
G	ENGLAND, London	33
GC	CHANNEL ISLANDS	36
GD	ISLE OF MAN	33
GI	NORTHERN IRELAND, Belfast	34
GM	SCOTLAND, Glasgow	31
GW	WALES	34
HA	HUNGARY, Budapest	26
HB	SWITZERLAND, Bern	32
HC	ECUADOR, Quito	123
HC8	GALAPAGOS ISLANDS	137
HE1	LEICHTENSTEIN	31
HH	HAITI, Port-au-Prince	100
HI	DOMINICAN REPUBLIC	98
HK	COLOMBIA, Bogota	115
HL1	KOREA, Seoul	311
HP	PANAMA	116
HR	HONDURAS, Tegucigalpa	118
HS	SIAM, Bangkok	312
HV	VATICAN CITY	32
HZ	SAUDI ARABIA, Mecca	19
I	ITALY, Rome	32
IS	SARDINIA	35
JA	JAPAN, Tokyo	303
KB6	BAKER ISLAND	246
KC6	CAROLINE ISLANDS	275
KG4	GUANTANAMO BAY, Cuba	100
KG6	GUAM	287
KG6I	IWO JIMA ISLAND	293
KG6S	SAIPAN ISLAND	282
KG6T	TINIAN ISLAND	282
KH6	HAWAIIAN ISLANDS, Honolulu	252
KJ6	JOHNSTON ISLAND	256
KL7	ALASKA, Anchorage	333
	Fairbanks	340
KM6	MIDWAY ISLAND	275
KP4	PUERTO RICO	96
KP6	PALMYRA ISLAND	239
KR6	OKINAWA ISLAND	302
KS4	SWAN ISLAND	108
KS6	SAMOA	230
KV4	VIRGIN ISLANDS	94
KW6	WAKE ISLAND	275
KX6	MARSHALL ISLANDS	263
KZ5	CANAL ZONE	116
LA	NORWAY, Oslo	22
LI	LIBYA, Tripoli	37
LU	ARGENTINA, Buenos Aires	132
LX	LUXEMBOURG	32
LZ	BULGARIA, Sofia	25
MB9	AUSTRIA, Vienna	28
MD1	CIRENAICA	32
MD2	TRIPOLITANIA	37
MD3	ERITREA, Asmara	22
MD4	BRITISH SOMALILAND	17
MD5	SUEZ CANAL ZONE	23
MD6	IRAQ, Baghdad	13
MF2	TRIESTE (British)	30
MI3	ERITREA, Asmara	22
MP4	BAHREIN ISLANDS and OMAN	8
OA	PERU, Lima	130
OD5	LEBANON, Beyrouth	20
OH	FINLAND, Helsinki	16
OE	AUSTRIA, Vienna	28
OK	CZECHOSLOVAKIA, Prague	26
ON	BELGIUM, Brussels	31
OQ5	BELGIAN CONGO, Elisabethville	55
	Leopoldville	61
	Stanleyville	47
OX	GREENLAND, Godthaab	34
OY	FAEROES ISLANDS	28
OZ	DENMARK, Copenhagen	24
PA	NETHERLANDS, Amsterdam	30
PK	JAVA, Batavia	291
PK4	SUMATRA	300
PK5	BORNEO	290
PK6	CELEBES ISLAND	285
PK7	NETHERLAND NEW GUINEA	273
PX	ANDORRA	39
PY	BRAZIL, Natal	97
	Rio de Janeiro	115
PZ	SURINAM, (Netherland Guiana)	100
SM	SWEDEN, Stockholm	19
SP	POLAND, Warsaw	22
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	30
SU	Egypt, Cairo	24
SV	GREECE, Athens	27
SV5	DODECANESE ISLANDS	25
TA	TURKEY, Ankara	20
TF	ICELAND, Reykjavik	30
TG	GUATEMALA, Guatemala City	121
TI	COSTA RICA	119
TR	LIBYA, Tripoli	37
TT	TANNU TUVA, Kyzyl Khoto	338
U	SOVIET UNION, Moscow	22
UB5	UKRAINE	16
UC5	WHITE RUSSIA	18
UD6	AZERBAIJAN	8
UF6	GEORGIA	13
UG6	ARMENIA	10
UH8	TURKOMAN	3
UI8	UZBEK	354
UJ8	TADZHIK	350
UL7	KAZAKH	350
UM8	KIRGHIZ	351
UN1	KARELO-FINNISH REPUBLIC	12
UO5	MOLDAVIA	21
UP	LITHUANIA	19
UQ	LATVIA	18
UR	ESTONIA	17
VE1	CANADA, Halifax	62
VE2	Montreal	62
VE3	Toronto	66
VE4	Winnipeg	48
VE5	Saskatoon	33
VE6	Edmonton	18
VE7	Vancouver	359
VE8	Fort Nelson	360
VK1	HEARD ISLAND	209
VK2	AUSTRALIA, Sydney	240
VK3	Melbourne	239
VK4	Brisbane	244
VK5	Darwin	268
VK6	Perth	259
VK7	TASMANIA, Hobart	234
VK9	NORFOLK ISLAND	235
	PAPUA TERRITORY, Port Moresby	266
VO	NEWFOUNDLAND, St. John's	55
VP1	BRITISH HONDURAS	116
VP2	LEEWARD and WINDWARD ISLANDS	94
VP3	BRITISH GUIANA, Georgetown	102
VP4	TRINIDAD	100
VP5	JAMAICA	105
VP6	BARBADOS ISLANDS	97
VP7	BAHAMAS ISLANDS	97
VP8	FALKLAND ISLANDS	145
	South Georgia Island	140
	South Orkney Islands	149
VP9	BERMUDA	79
VQ1	ZANZIBAR	34
VQ2	NORTHERN RHODESIA, Lusaka	58
VQ3	TANGANYIKA, Dar-Es-Salaam	35
VQ4	KENYA, Nairobi	34
VQ5	UGANDA	38
VQ6	BRITISH SOMALILAND	17
VQ8	CHAGOS ISLANDS	337
	Mauritius	9
VQ9	SEYCHELLES	5
VR1	GILBERT ISLANDS	4
VR2	FIJI ISLANDS	237
VR3	FANNING ISLAND	235
VR4	SOLOMON ISLANDS	257
VR5	TONGA ISLANDS	231
VR6	PITCAIRN ISLAND	187
VS	MALAYA, Singapore	301
VS4	BRITISH NORTH BORNEO	294
VS5	BRUNEI and SARAWAK	296
VS6	HONG KONG	310
VS7	CEYLON	330
VS9	ADEN, Aden	15
VU	INDIA, Bombay	343
	Calcutta	329
	Delhi	342
VU4	LACCADIVE ISLANDS	342
VU5	ANDAMAN ISLANDS	320
XE	MEXICO, Mexico City	126
XZ	BURMA, Rangoon	319
YA	AFGHANISTAN, Kandahar	3
YI	IRAQ, Baghdad	12
YJ	NEW HEBRIDES	243
YK	SYRIA	17
YN	NICARAGUA, Managua	119
YO	ROMANIA, Bucharest	23
YS	SALVADOR, San Salvador	121
YT	YUGOSLAVIA, Belgrade	26
YV	VENEZUELA, Caracas	104
ZA	ALBANIA, Tirana	29
ZB1	MALTA	35
ZB2	GIBRALTAR	46
ZC1	TRANSJORDAN	22
ZC2	COCOS ISLANDS	295
ZC3	CHRISTMAS ISLAND	289
ZC4	CYPRUS	21
ZD1	SIERRA LEONE, Freetown	72
ZD2	NIGERIA, Lagos	62
ZD3	GAMBIA	71
ZD4	GOLD COAST, Accra	66
ZD6	NYASALAND	50
ZD7	ST. HELENA	89
ZD8	ASENCION ISLAND	87
ZD9	TRISTAN da CUNHA	114
ZE	SOUTHERN RHODESIA, Salisbury	58
ZK1	COOK ISLANDS	223
ZK2	NIUE	228
ZL1	NEW ZEALAND, Auckland	226
ZL2	Wellington	224
ZL3	Christchurch	223
ZL4	Dunedin	222
ZM6	SAMOA (British)	237
ZP	PARAGUAY, Asuncion	125
ZS	UNION OF SOUTH AFRICA, Capetown	95
	Durban	79
	Johannesburg	74
ZS3	SOUTH WEST AFRICA, Windhoek	79
ZS7	SWAZILAND	72
ZS8	BASUTOLAND	81
ZS9	BECHUANALAND	71
3A2	MONACO	35
3V8	TUNISIA, Tunis	37
4X4	ISRAEL	21
5A2	LIBYA	35
9S4	SAARLAND	31

Great Circle Chart of the World Centered on

THE UNITED STATES

To find the great circle bearing to any point in the world from the center of the United States, draw a straight line from the star and note the reading in degrees on the outer scale. The bar scale at the bottom of the chart can be used to determine the distance in statute miles. For bearings to the nearest degree reference is invited to the table on the opposite Page. The outlines of this chart were prepared by the U.S. Coast and Geodetic Survey.

GREAT CIRCLE BEARINGS

FROM THE CENTER OF THE

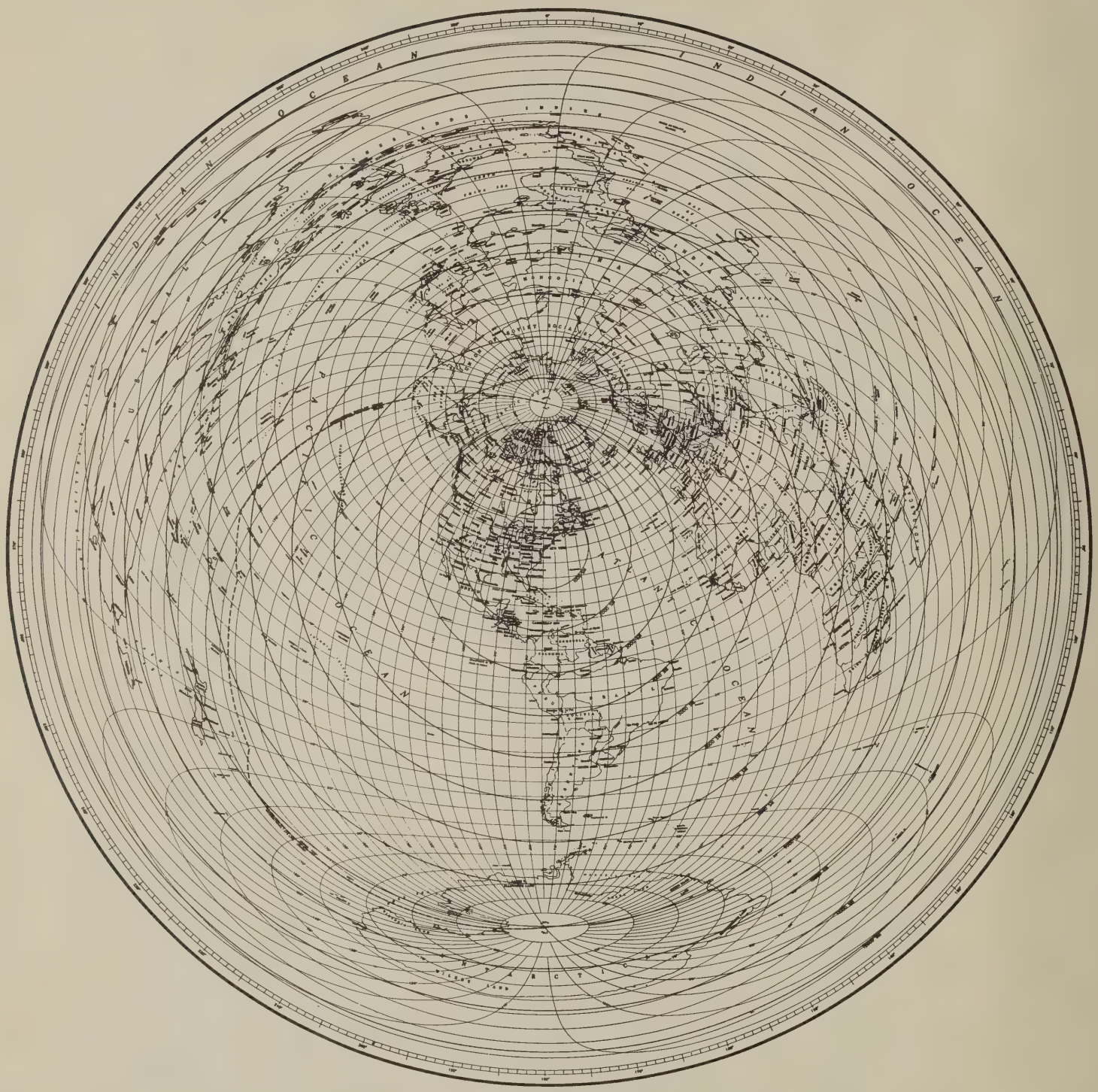
UNITED STATES

The table below shows the great circle bearing in degrees from the exact center of the United States to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	352
AC4	TIBET, Lhasa	350
AG2	TRIESTE	41
AP	PAKISTAN, Karachi	13
AR8	LEBANON, Beyrouth	36
C	CHINA, Chungking	335
	Pekin	333
	Shanghai	325
CE	CHILE, Santiago	156
CM	CUBA, Havana	135
CN2	TANGIER ZONE	59
CN8	FRENCH MOROCCO, Casablanca	62
CP	BOLIVIA, La Paz	146
CR4	CAPE VERDE ISLANDS	87
CR5	PORTUGUESE GUINEA	84
CR6	ANGOLA, Nova Lisboa	83
CR7	MOZAMBIQUE, Lourenco Marques	85
	Mozambique	65
CR8	GOA	7
CR9	MACAU	327
CR10	TIMOR ISLAND	295
CT1	PORTUGAL, Lisbon	59
CT2	AZORES ISLANDS	67
CT3	MADERIA ISLANDS	68
CX	URUGUAY, Montevideo	145
DL	GERMANY, Berlin	37
DU	PHILIPPINE ISLANDS, Manila	316
EA	SPAIN, Madrid	54
EA6	BALEARIC ISLANDS	52
EA8	CANARY ISLANDS	71
EA9	SPANISH MOROCCO	59
EI	IRELAND, Dublin	43
EK1	TANGIER ZONE	60
EL	LIBERIA, Monrovia	86
EP	IRAN, Tehran	23
ET	ETHOPIA, Addis Ababa	48
F	FRANCE, Paris	44
FA	ALGERIA, Algiers	54
FB8	MADAGASCAR, Antsirana	53
	Tananarive	63
FC	CORSICA	46
FD8	TOGOLAND	77
FE8	FRENCH CAMEROONS	72
FF8	FRENCH WEST AFRICA, Dakar	84
FG8	GUADELOUPE	114
FI8	FRENCH INDO CHINA, Saigon	328
FK8	NEW CALEDONIA, Noumea	254
FKS8	AUSTRIA, Vienna	38
FL8	FRENCH SOMALILAND, Djibouti	42
FM8	MARTINIQUE	117
FN	FRENCH INDIA	351
FO8	FRENCH OCEANIA, Tahiti	229
FP8	MIQUELON and ST. PIERRE IS.	64
FQ8	FRENCH EQUATORIAL AFRICA	65
FR8	REUNION ISLAND	55
FT4	TUNISIA, Tunis	50
FU8	NEW HEBRIDES	259
FY8	FRENCH GUIANA, Cayenne	117
G	ENGLAND, London	43
GC	CHANNEL ISLANDS	45
GD	ISLE OF MAN	41
GI	NORTHERN IRELAND, Belfast	42
GM	SCOTLAND, Glasgow	40
GW	WALES	43
HA	HUNGARY, Budapest	37
HB	SWITZERLAND, Bern	43
HC	ECUADOR, Quito	148
HC8	GALAPAGOS ISLANDS	167
HE1	LEICHTENSTEIN	43
HH	HAITI, Port-au-Prince	124
HI	DOMINICAN REPUBLIC	122
HK	COLOMBIA, Bogota	140
HL1	KOREA, Seoul	324
HP	PANAMA	145
HR	HONDURAS	152
HS	SIAM, Bangkok	336
HV	VATICAN CITY	45
HZ	SAUDI ARABIA	34
I	ITALY, Rome	45
IS	SARDINIA	48
JA	JAPAN, Tokyo	315
KA	JAPAN, Tokyo	315
KB6	BAKER ISLAND	262
KC6	CAROLINE ISLANDS	260
KG4	GUANTANAMO BAY, Cuba	126
KG6	GUAM	297
KG6I	IWO JIMA ISLAND	317
KG6S	SAIPAN ISLAND	297
KG6T	TINIAN ISLAND	297
KH6	HAWAIIAN ISLANDS, Honolulu	267
KJ6	JOHNSTON ISLAND	270
KL7	ALASKA, Anchorage	322
	Fairbanks	329
KM6	MIDWAY ISLAND	288
KP4	PUERTO RICO	117
KP6	PALMYRA ISLAND	256
KR6	OKINAWA ISLAND	318
KS4	SWAN ISLAND	144
KS6	SAMOA	248
KV4	VIRGIN ISLANDS	115
KW6	WAKE ISLAND	287
KX6	MARSHALL ISLANDS	276
KZ5	CANAL ZONE	145
LA	NORWAY, Oslo	29
LI	LIBYA, Tripoli	51
LU	ARGENTINA, Buenos Aires	147
LX	LUXEMBOURG	42
LZ	BULGARIA, Sofia	38
MB9	AUSTRIA, Vienna	38
MD1	CIRENAICA	46
MD2	TRIPOLITANIA	51
MD3	ERITREA, Asmara	44
MD4	BRITISH SOMALILAND	40
MD5	SUEZ CANAL ZONE	40
MD6	IRAQ, Baghdad	30
MD7	CYPRUS	37
MF2	TRIESTE (British)	41
MI3	ERITREA, Asmara	44
MP4	BAHREIN ISLANDS and OMAN	28
MI	SAN MARINO	44
OA	PERU, Lima	153
OH	FINLAND, Helsinki	25
OE	AUSTRIA, Vienna	38
OK	CZECHOSLOVAKIA, Prague	38
ON	BELGIUM, Brussels	41
OQ5	BELGIAN CONGO, Elisabethville	74
	Leopoldville	76
	Stanleyville	65
OX	GREENLAND, Godthaab	34
OY	FAEROES ISLANDS	34
OZ	DENMARK, Copenhagen	34
PA	NETHERLANDS, Amsterdam	40
PJ	NETHERLAND WEST INDIES	129
PK	JAVA, Batavia	317
PK4	SUMATRA	328
PK5	BORNEO	314
PK6	CELEBES ISLAND	305
PK7	NETHERLAND NEW GUINEA	290
PX	ANDORRA	50
PY	BRAZIL, Natal	112
	Rio de Janeiro	129
PZ	SURINAM, (Netherland Guiana)	121
SM	SWEDEN, Stockholm	29
SP	POLAND, Warsaw	33
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	49
SU	EGYPT, Cairo	41
SV	GREECE, Athens	41
SV5	DODECANESE ISLANDS	40
TA	TURKEY, Ankara	35
TF	ICELAND, Reykjavik	35
TG	GUATEMALA, Guatemala City	161
TI	COSTA RICA	150
TR	LIBYA, Tripoli	51
TT	TANNU TUVA, Kyzyl Khoto	351
U	SOVIET UNION, Moscow	23
UB5	UKRAINE	30
UC5	WHITE RUSSIA	25
UD6	AZERBAIJAN	23
UF6	GEORGIA	28
UG6	ARMENIA	26
UH8	TURKOMAN	19
UI8	UZBEK	12
UJ8	TADZHIK	7
UL7	KAZAKH	10
UM8	KIRGHIZ	5
UN1	KARELO-FINNISH REPUBLIC	20
UO5	MOLDAVIA	32
UP	LITHUANIA	30
UQ	LATVIA	29
UR	ESTONIA	27
VE1	CANADA, Halifax	68
VE2	Montreal	64
VE3	Toronto	77
VE4	Winnipeg	10
VE5	Saskatoon	339
VE6	Edmonton	330
VE7	Vancouver	308
VE8	Fort Nelson	333
VK1	HEARD ISLAND	163
VK2	AUSTRALIA, Sydney	252
VK3	Melbourne	250
VK4	Brisbane	257
VK5	Darwin	287
VK6	Perth	274
VK7	TASMANIA, Hobart	243
VK9	NORFOLK ISLAND	248
	PAPUA TERRITORY, Port Moresby	277
VO	NEWFOUNDLAND, St. John's	59
VP1	BRITISH HONDURAS	152
VP2	LEEWARD and WINDWARD ISLANDS	112
VP3	BRITISH GUIANA, Georgetown	120
VP4	TRINIDAD	120
VP5	JAMAICA	127
VP6	BARBADOS ISLANDS	112
VP7	BAHAMAS ISLANDS	121
VP8	FALKLAND ISLANDS	156
	South Georgia Island	147
	South Orkney Islands	155
VP9	BERMUDA	94
VQ1	ZANZIBAR	57
VQ2	NORTHERN RHODESIA, Lusaka	77
VQ3	TANGANYIKA, Dar-Es-Salaam	59
VQ4	KENYA, Nairobi	56
VQ5	UGANDA	59
VQ6	BRITISH SOMALILAND	40
VQ8	CHAGOS ISLANDS	14
	Mauritius	51
VQ9	SEYCHELLES	38
VR1	GILBERT ISLANDS	267
VR2	FIJI ISLANDS	251
VR3	FANNING ISLAND	252
VR4	SOLOMON ISLANDS	270
VR5	TONGA ISLANDS	244
VR6	PITCAIRN ISLAND	208
VS	MALAYA, Singapore	326
VS4	BRITISH NORTH BORNEO	314
VS5	BRUNEI and SARAWAK	316
VS6	HONG KONG	326
VS7	CEYLON	1
VS9	ADEN, Aden	39
VU	INDIA, Bombay	8
	Calcutta	351
	Delhi	3
VU4	LACCADIVE ISLANDS	9
VU5	ANDAMAN ISLANDS	345
XE	MEXICO, Mexico City	178
XZ	BURMA, Rangoon	342
YA	AFGHANISTAN, Kandahar	13
YI	IRAQ, Baghdad	30
YJ	NEW HEBRIDES	260
YK	SYRIA	34
YN	NICARAGUA	150
YO	ROMANIA, Bucharest	36
YS	SALVADOR, San Salvador	156
YT	YUGOSLAVIA, Belgrade	39
YV	VENEZUELA, Caracas	126
ZA	ALBANIA, Tirana	41
ZB1	MALTA	48
ZB2	GIBRALTAR	58
ZC1	TRANSJORDAN	36
ZC2	COCOS ISLANDS	327
ZC3	CHRISTMAS ISLAND	315
ZC4	CYPRUS	37
ZD1	SIERRA LEONE, Freetown	81
ZD2	NIGERIA, Lagos	76
ZD3	GAMBIA	84
ZD4	GOLD COAST, Accra	80
ZD6	NYASALAND	69
ZD7	ST. HELENA	100
ZD8	ASENCION ISLAND	99
ZD9	TRISTAN da CUNHA	122
ZE	SOUTHERN RHODESIA, Salisbury	77
ZK1	COOK ISLANDS	234
ZK2	NIUE	242
ZL1	NEW ZEALAND, Auckland	238
ZL2	Wellington	234
ZL3	Christchurch	233
ZL4	Dunedin	231
ZM6	SAMOA (British)	248
ZP	PARAGUAY, Asuncion	141
ZS	UNION OF SOUTH AFRICA, Capetown	104
	Durban	91
	Johannesburg	89
ZS3	SOUTH WEST AFRICA, Windhoek	92
ZS7	SWAZILAND	81
ZS8	BASUTOLAND	93
ZS9	BECHUANALAND	87
3A2	MONACO	46
3V8	TUNISIA	50
4X4	ISRAEL	37
5A2	LIBYA	51
9S4	SARRLAND	42

Great Circle Chart of the World Centered on

NEW YORK, N. Y.



To find the great circle bearing of any point in the world from New York, N. Y., draw a straight line from the center and note the reading in degrees on the outer scale. The circles at 1,000 statute mile intervals, permit this chart to be used as a distance table from New York City to any point in the world. Prepared by the U. S. Coast and Geodetic Survey.

GREAT CIRCLE BEARINGS

CENTERED ON

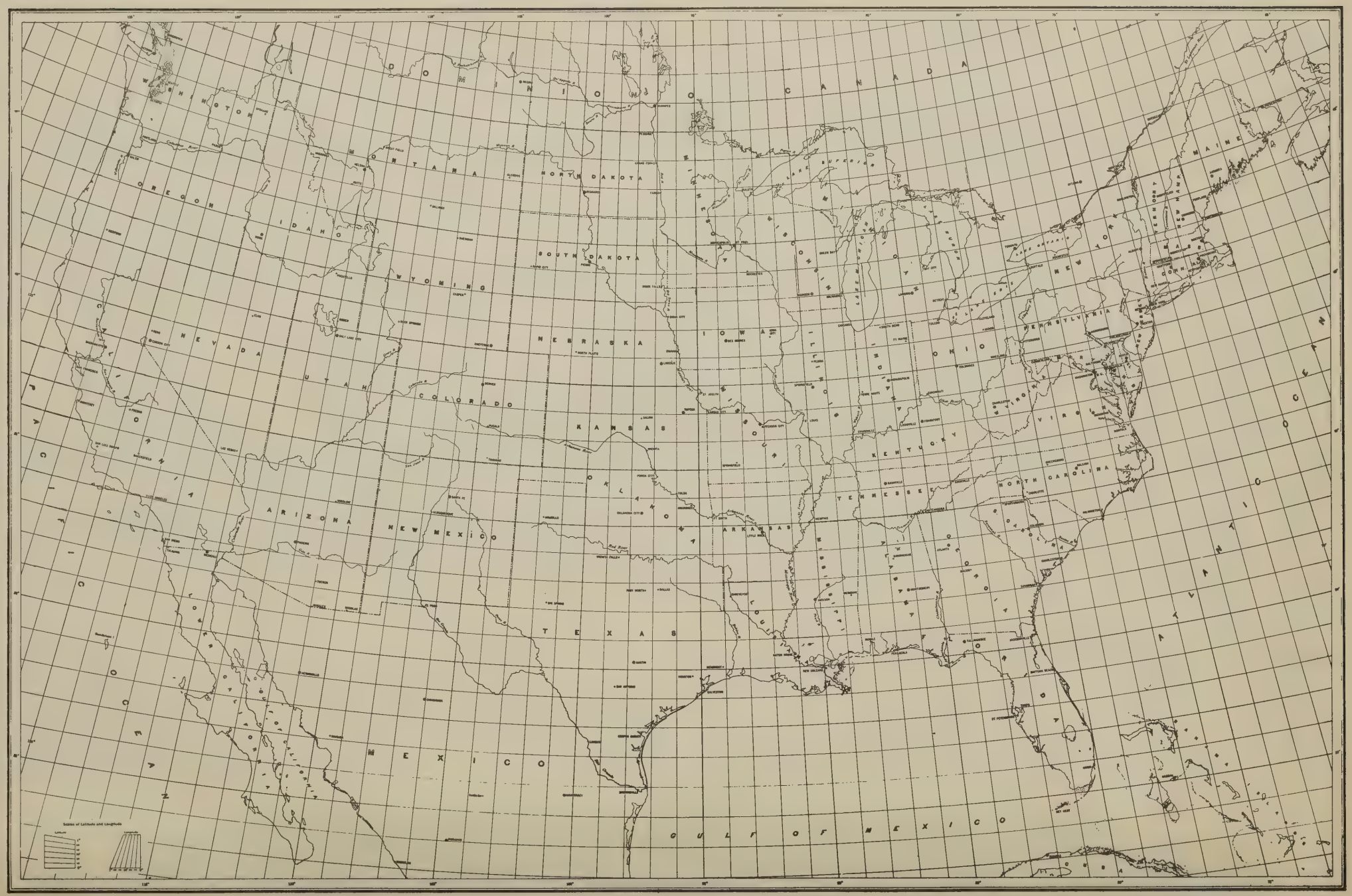
NEW YORK, N. Y.

The table below shows the great circle bearing in degrees from New York, N. Y., to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	17
AC4	TIBET, Lhasa	14
AG2	TRIESTE	53
AP	PAKISTAN, Karachi	36
AR8	LEBANON, Beyrouth	52
C	CHINA, Chungking	359
	Pekin	352
	Shanghai	346
CE	CHILE, Santiago	177
CM	CUBA, Havana	204
CN2	TANGIER ZONE	72
CN8	FRENCH MOROCCO, Casablanca	75
CP	BOLIVIA, La Paz	173
CR4	CAPE VERDE ISLANDS	105
CR5	PORTUGUESE GUINEA	101
CR6	ANGOLA, Nova Lisboa	100
CR7	MOZAMBIQUE, Lourenco Marques	101
	Mocambique	85
CR8	GOA	35
CR9	MACAU	352
CR10	TIMOR ISLAND	327
CT1	PORTUGAL, Lisbon	70
CT2	AZORES ISLANDS	78
CT3	MADERIA ISLANDS	81
CX	URUGUAY, Montevideo	165
DL	GERMANY, Berlin	46
DU	PHILIPPINE ISLANDS, Manila	343
EA	SPAIN, Madrid	66
EA6	BALEARIC ISLANDS	64
EA8	CANARY ISLANDS	86
EA9	SPANISH MOROCCO	72
EI	IRELAND, Dublin	50
EK1	TANGIER ZONE	72
EL	LIBERIA, Monrovia	103
EP	IRAN, Tehran	42
ET	ETHIOPIA, Addis Ababa	68
F	FRANCE, Paris	54
FA	ALGERIA, Algiers	67
FB8	MADAGASCAR, Antsirana	77
	Tananarive	84
FC	CORSICA	58
FD8	TOGOLAND	93
FE8	FRENCH CAMEROONS	90
FF8	FRENCH WEST AFRICA, Dakar	101
FG8	GUADELOUPE	152
FI8	FRENCH INDO CHINA, Saigon	359
FK8	NEW CALEDONIA, Noumea	271
FKS8	AUSTRIA, Vienna	49
FL8	FRENCH SOMALILAND, Djibouti	63
FN	FRENCH INDIA	18
FM8	MARTINIQUE	153
FO8	FRENCH OCEANIA, Tahiti	248
FP8	MIQUELON & ST. PIERRE IS.	55
FQ8	FRENCH EQUATORIAL AFRICA	82
FR8	REUNION ISLAND	81
FT4	TUNISIA, Tunis	63
FU8	NEW HEBRIDES	276
FY8	FRENCH GUIANA, Cayenne	146
G	ENGLAND, London	51
GC	CHANNEL ISLANDS	53
GD	ISLE OF MAN	48
GI	NORTHERN IRELAND, Belfast	49
GM	SCOTLAND, Glasgow	46
GW	WALES	50
HA	HUNGARY, Budapest	49
HB	SWITZERLAND, Bern	54
HC	ECUADOR, Quito	187
HC8	GALAPAGOS ISLANDS	205
HE1	LEICHTENSTEIN	54
HH	HAITI, Port-au-Prince	175
HI	DOMINICAN REPUBLIC	170
HK	COLOMBIA, Bogota	180
HL1	KOREA, Seoul	343
HP	PANAMA	190
HR	HONDURAS, Tegucigalpa	207
HS	SIAM, Bangkok	6
HV	VATICAN CITY	57
HZ	SAUDI ARABIA	55
I	ITALY, Rome	57
IS	SARDINIA	60
JA	JAPAN, TOKYO	333
KA	JAPAN, Tokyo	333
KB6	BAKER ISLAND	278
KC6	CAROLINE ISLANDS	312
KG4	GUANTANAMO BAY, Cuba	181
KG6	GUAM	318
KG6I	IWO JIMA ISLAND	327
KG6S	SAIPAN ISLAND	318
KG6T	TINIAN ISLAND	318
KH6	HAWAIIAN ISLANDS, Honolulu	283
KJ6	JOHNSTON ISLAND	286
KL7	ALASKA, Anchorage	321
	Fairbanks	327
KM6	MIDWAY ISLAND	301
KP4	PUERTO RICO, San Juan	160
KP6	PALMYRA ISLAND	271
KR6	OKINAWA ISLAND	340
KS4	SWAN ISLAND	203
KS6	SAMOA	264
KV4	VIRGIN ISLANDS	151
KW6	WAKE ISLAND	304
KX6	MARSHALL ISLANDS	294
KZ5	CANAL ZONE	190
LA	NORWAY, Oslo	39
LI	LIBYA, Tripoli	65
LU	ARGENTINA, Buenos Aires	167
LX	LUXEMBOURG	51
LZ	BULGARIA, Sofia	52
MB9	AUSTRIA, Vienna	49
MD1	CIRENAICA	61
MD2	TRIPOLITANIA	65
MD3	ERITREA, Asmara	63
MD4	BRITISH SOMALILAND	62
MD5	SUEZ CANAL ZONE	57
MD6	IRAQ, Baghdad	47
MD7	CYPRUS	53
MF2	TRIESTE (British)	53
MI3	ERITREA, Asmara	63
MP4	BAHREIN ISLANDS & OMAN	48
MI	SAN MARINO	55
OA	PERU, Lima	184
OE	AUSTRIA, Vienna	49
OH	FINLAND, Helsinki	25
OK	CZECHOSLOVAKIA, Prague	48
ON	BELGIUM, Brussels	51
OQ5	BELGIAN CONGO, Elisabethville	91
	Leopoldville	94
	Stanleyville	83
OX	GREENLAND, Godthaab	22
OY	FAEROES ISLANDS	38
OZ	DENMARK, Copenhagen	43
PA	NETHERLANDS, Amsterdam	49
PJ	NETHERLAND WEST INDIES	169
PK	JAVA, Batavia	358
PK4	SUMATRA	5
PK5	BORNEO	348
PK6	CELEBES ISLAND	336
PK7	NETHERLAND NEW GUINEA	313
PX	ANDORRA	62
PY	BRAZIL, Natal	132
	Rio de Janeiro	150
PZ	SURINAM (Netherland Guiana)	151
SM	SWEDEN, Stockholm	38
SP	POLAND, Warsaw	44
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	67
SU	EGYPT, Cairo	58
SV	GREECE, Athens	56
SV5	DODECANESE ISLANDS	54
TA	TURKEY, Ankara	49
TF	ICELAND, Reykjavik	34
TG	GUATEMALA, Guatemala City	214
TI	COSTA RICA, San Jose	199
TR	LIBYA, Tripoli	65
TT	TANNU TUVA, Kyzyl Khoto	7
U	SOVIET UNION, Moscow	34
UB5	UKRAINE	43
UC5	WHITE RUSSIA	39
UD6	AZERBAIJAN	42
UF6	GEORGIA	41
UG6	ARMENIA	43
UH8	TURKOMAN	33
UI8	UZBEK	29
UJ8	TADZHIK	28
UL7	KAZAKH	22
UM8	KIRGHIZ	21
UN1	KARELO-FINNISH REPUBLIC	27
UO5	MOLDAVIA	46
UP	LITHUANIA	40
UQ	LATVIA	38
UR	ESTONIA	36
VE1	CANADA, Halifax	61
VE2	Montreal	4
VE3	Toronto	305
VE4	Winnipeg	307
VE5	Saskatoon	308
VE6	Edmonton	311
VE7	Vancouver	302
VE8	Fort Nelson	318
VK1	HEARD ISLAND	130
VK2	AUSTRALIA, Sydney	266
VK3	Melbourne	262
VK4	Brisbane	274
VK5	Darwin	315
VK6	Perth	315
VK7	TASMANIA, Hobart	252
VK9	NORFOLK ISLAND	263
	PAPUA TERRITORY, Port Moresby	299
VO	NEWFOUNDLAND, St. John's	60
VP1	BRITISH HONDURAS	212
VP2	LEEWARD & WINDWARD ISLANDS	151
VP3	BRITISH GUIANA, Georgetown	152
VP4	TRINIDAD	155
VP5	JAMAICA, Kingston	187
VP6	BARBADOS ISLANDS	149
VP7	BAHAMAS ISLANDS	186
VP8	FALKLAND ISLANDS	171
	South Georgia Island	159
	South Orkney Islands	166
VP9	BERMUDA	134
VQ1	ZANZIBAR	79
VQ2	NORTHERN RHODESIA, Lusaka	94
VQ3	TANGANYIKA, Dar-Es-Salaam	80
VQ4	KENYA, Nairobi	77
VQ5	UGANDA	83
VQ6	BRITISH SOMALILAND, Berbera	62
VQ8	CHAGOS ISLANDS	50
	Mauritius	78
VQ9	SEYCHELLES	65
VR1	GILBERT ISLANDS	283
VR2	FIJI ISLANDS, Suva	267
VR3	FANNING ISLAND	270
VR4	SOLOMON ISLANDS	290
VR5	TONGA ISLANDS	261
VR6	PITCAIRN ISLAND	229
VS	MALAYA, Singapore	3
VS4	BRITISH NORTH BORNEO	345
VS5	BRUNEI and SARAWAK	348
VS6	HONG KONG	351
VS7	CEYLON	32
VS9	ADEN, Aden	61
VU	INDIA, Bombay	34
	Calcutta	18
	Delhi	26
VU4	LACCADIVE ISLANDS	38
VU5	ANDAMAN ISLANDS	16
XE	MEXICO, Mexico City	233
XZ	BURMA, Rangoon	11
YA	AFGHANISTAN, Kandahar	34
YI	IRAQ, Baghdad	47
YJ	NEW HEBRIDES	276
YK	SYRIA	50
YN	NICARAGUA, Managua	204
YO	ROMANIA, Bucharest	49
YS	SALVADOR, San Salvador	210
YT	YUGOSLAVIA, Belgrade	51
YV	VENEZUELA, Caracas	166
ZA	ALBANIA, Tirana	55
ZB1	MALTA	61
ZB2	GIBRALTAR	71
ZC1	TRANSJORDAN	53
ZC2	COCOS ISLANDS	18
ZC3	CHRISTMAS ISLAND	267
ZC4	CYPRUS	53
ZD1	SIERRA LEONE, Freetown	103
ZD2	NIGERIA, Lagos	93
ZD3	GAMBIA	102
ZD4	GOLD COAST, Accra	96
ZD6	NYASALAND	87
ZD7	ST. HELENA	116
ZD8	ASENCION ISLAND	116
ZD9	TRISTAN da CUNHA	135
ZE	SOUTHERN RHODESIA, Salisbury	94
ZK1	COOK ISLANDS	252
ZK2	NIUE	258
ZL1	NEW ZEALAND, Auckland	251
ZL2	Wellington	245
ZL3	Christchurch	243
ZL4	Dunedin	241
ZM6	SAMOA (British)	265
ZP	PARAGUAY, Asuncion	164
ZS	UNION OF SOUTH AFRICA, Capetown	116
	Durban	106
	Johannesburg	104
ZS3	SOUTH WEST AFRICA, Windhoek	107
ZS7	SWAZILAND	102
ZS8	BASUTOLAND	107
ZS9	BECHUANALAND	103
3A2	MONACO	57
3V8	TUNISIA	63
4X4	ISRAEL	54
5A2	LIBYA	65
9S4	SAARLAND	52

GREAT CIRCLE OUTLINE CHART OF THE UNITED STATES

Published by the U. S. Coast and Geodetic Survey



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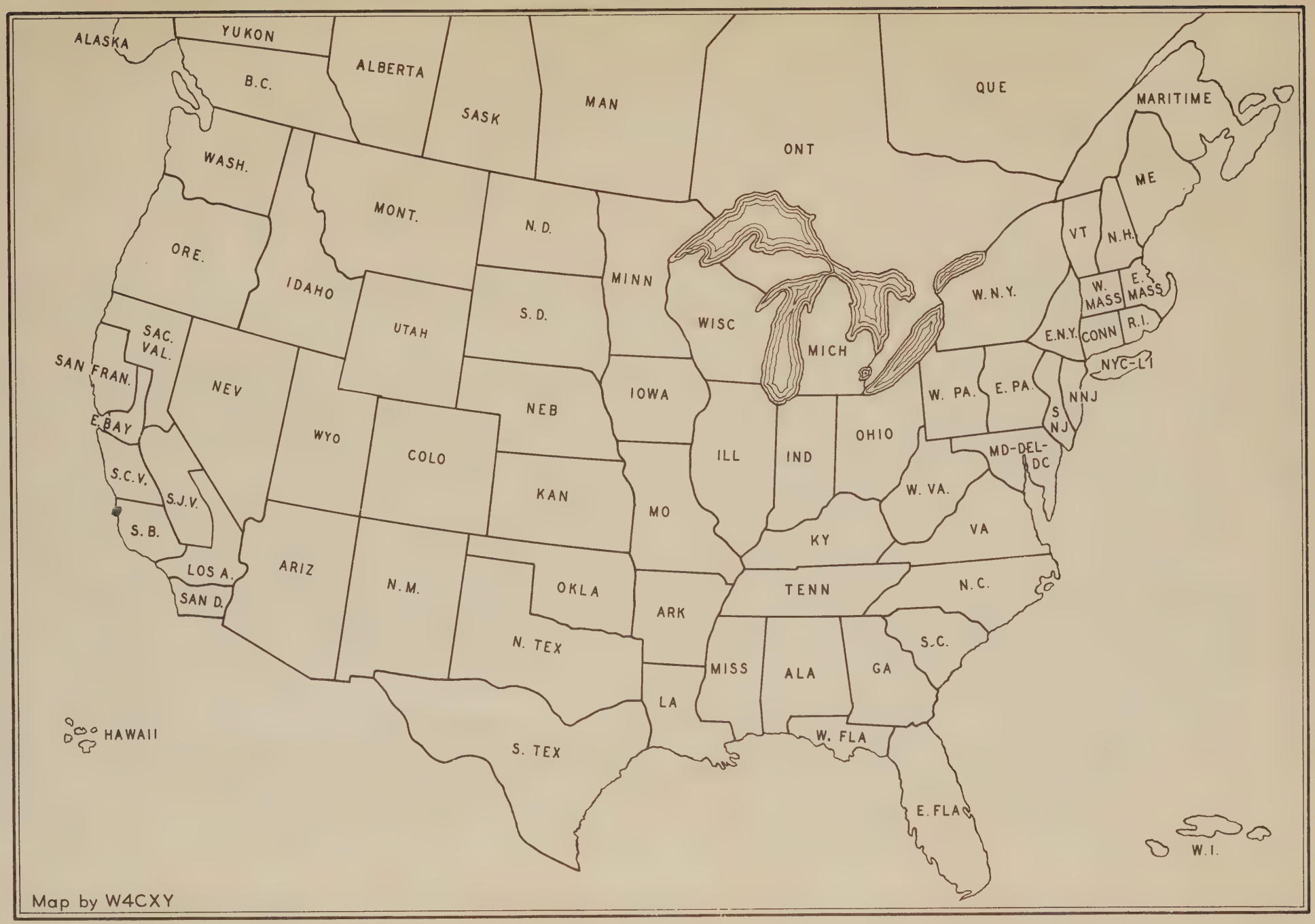
ARRL SECTION MAP



PREFIX MAP OF SOUTH AMERICA

Drafted by W4CXY
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ATLANTA, GEORGIA

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	7
AC4	TIBET, Lhasa	5
AG2	TRIESTE	47
AP	PAKISTAN, Karachi	29
C	CHINA, Chungking	351
	Pekin	345
	Shanghai	336
CE	CHILE, Santiago	168
CM	CUBA, Havana	170
CN2	TANGIER ZONE	64
CN8	FRENCH MOROCCO, Casablanca	67
CP	BOLIVIA, La Paz	160
CR4	CAPE VERDE ISLANDS	94
CR5	PORTUGUESE GUINEA	92
CR6	ANGOLA, Nova Lisboa	96
CR7	MOZAMBIQUE, Lourenco Marques	101
	Mocambique	84
CR8	GOA	26
CR9	MACAU	240
CR10	TIMOR ISLAND	308
CT1	PORTUGAL, Lisbon	62
CT2	AZORES	68
CT3	MADERIA ISLANDS	72
CX	URUGUAY, Montevideo	156
DL	GERMANY, Berlin	41
DU	PHILIPPINE ISLANDS, Manila	329
EA	SPAIN, Madrid	58
EA6	BALEARIC ISLANDS	57
EA8	CANARY ISLANDS	76
EA9	SPANISH MOROCCO	64
EI	IRELAND, Dublin	45
EL	LIBERIA, Monrovia	94
EP	IRAN, Tehran	36
ET	ETHIOPIA, Addis Ababa	63
F	FRANCE, Paris	47
FA	ALGERIA, Algiers	60
FB8	MADAGASCAR, Tananarive	84
FC	CORSICA	52
FD8	TOGOLAND	86
FE8	FRENCH CAMEROONS	83
FF8	FRENCH WEST AFRICA, Dakar	90
FG8	GAUDELOUPE	126
FI8	FRENCH INDO CHINA, Saigon	355
FK8	NEW CALEDONIA, Noumea	260
FL8	FRENCH SOMALILAND, Djibouti	57
FM8	MARTINIQUE	127
FO8	FRENCH OCEANIA, Tahiti	241
FP8	MIQUELON and St. PIERRE IS.	51
FQ8	FRENCH EQUATORIAL AFRICA	75
FR8	REUNION ISLAND	82
FT4	TUNISIA, Tunis	57
FU8	NEW HEBRIDES	264
FY8	FRENCH GUIANA, Cayenne	128
G	ENGLAND, London	45
GC	CHANNEL ISLANDS	49
GD	ISLE OF MAN	43
GI	NORTHERN IRELAND, Belfast	43
GM	SCOTLAND, Glasgow	42
GW	WALES	46
HA	HUNGARY, Budapest	44
HB	SWITZERLAND, Bern	48
HC	ECUADOR, Quito	170
HC8	GALAPAGOS ISLANDS	253
HE1	LEICHTENSTEIN	47
HH	HAITI, Port-au-Prince	141
HI	DOMINICAN REPUBLIC	135
HK	COLOMBIA, Bogota	160
HL1	KOREA, Seoul	334
HP	PANAMA	170
HR	HONDURAS, Tegucigalpa	188
HS	SIAM, Bangkok	7
HV	VATICAN CITY	51
HZ	SAUDI ARABIA, Mecca	56
I	ITALY, Rome	51
IS	SARDINIA	53
JA	JAPAN, Tokyo	324
KB6	BAKER ISLAND	270
KC6	CAROLINE ISLANDS	300
KG4	GUANTANAMO BAY, Cuba	146
KG6	GUAM	306
KG6I	IWO JIMA ISLAND	317
KG6S	SAIPAN ISLAND	307
KG6T	TINIAN ISLAND	306
KH6	HAWAIIAN ISLANDS, Honolulu	280
KJ6	JOHNSTON ISLAND	282
KL7	ALASKA, Anchorage	325
	Fairbanks	330
KM6	MIDWAY ISLAND	295
KP4	PUERTO RICO	128
KP6	PALMYRA ISLAND	269
KR6	OKINAWA ISLAND	328
KS4	SWAN ISLAND	178
KS6	SAMOA	257
KV4	VIRGIN ISLANDS	125
KW6	WAKE ISLAND	296
KX6	MARSHALL ISLANDS	285
KZ5	CANAL ZONE	188
LA	NORWAY, Oslo	34
LI	LIBYA, Tripoli	59
LU	ARGENTINA, Buenos Aires	158
LX	LUXEMBOURG	45
LZ	BULGARIA, Sofia	46
MB9	AUSTRIA, Vienna	44
MD1	CIRENAICA	56
MD2	TRIPOLITANIA	59
MD3	ERITREA, Asmara	58
MD4	BRITISH SOMALILAND	57
MD5	SUEZ CANAL ZONE	51
MD6	IRAQ, Baghdad	41
MF2	TRIESTE (British)	47
MI3	ERITREA, Asmara	58
MP4	BAHREIN ISLANDS and OMAN	42
OA	PERU, Lima	170
OD5	LEBANON, Beyrouth	46
OH	FINLAND, Helsinki	30
OE	AUSTRIA, Vienna	44
OK	CZECHOSLOVAKIA, Prague	42
ON	BELGIUM, Brussels	45
OQ5	BELGIAN CONGO, Elisabethville	89
	Leopoldville	89
	Stanleyville	79
OX	GREENLAND, Godthaab	24
OY	FAEROES ISLANDS	34
OZ	DENMARK, Copenhagen	38
PA	NETHERLANDS, Amsterdam	43
PK	JAVA, Batavia	335
PK4	SUMATRA	347
PK5	BORNEO	317
PK6	CELEBES ISLAND	318
PK7	NETHERLAND NEW GUINEA	296
PX	ANDORRA	55
PY	BRAZIL, Natal	121
	Rio de Janeiro	139
PZ	SURINAM, (Netherland Guiana)	129
SM	SWEDEN, Stockholm	33
SP	POLAND, Warsaw	39
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	63
SU	Egypt, Cairo	51
SV	GREECE, Athens	50
SV5	DODECANESE ISLANDS	51
TA	TURKEY, Ankara	44
TF	ICELAND, Reykjavik	32
TG	GUATEMALA, Guatemala City	198
TI	COSTA RICA	179
TR	LIBYA, Tripoli	59
TT	TANNU TUVA, Kyzyl Khoto	1
U	SOVIET UNION, Moscow	30
UB5	UKRAINE	37
UC5	WHITE RUSSIA	35
UD6	AZERBAIJAN	34
UF6	GEORGIA	36
UG6	ARMENIA	37
UH8	TURKOMAN	29
UI8	UZBEK	23
UJ8	TADZHIK	19
UL7	KAZAKH	16
UM8	KIRGHIZ	15
UN1	KARELO-FINNISH REPUBLIC	25
UO5	MOLDAVIA	40
UP	LITHUANIA	35
UQ	LATVIA	33
UR	ESTONIA	31
VE1	CANADA, Halifax	50
VE2	Montreal	32
VE3	Toronto	20
VE4	Winnipeg	333
VE5	Saskatoon	326
VE6	Edmonton	323
VE7	Vancouver	311
VE8	Fort Nelson	327
VK1	HEARD ISLAND	147
VK2	AUSTRALIA, Sydney	254
VK3	Melbourne	249
VK4	Brisbane	260
VK5	Darwin	294
VK6	Perth	271
VK7	TASMANIA, Hobart	241
VK9	NORFOLK ISLAND	253
	PAPUA TERRITORY, Port Moresby	284
VO	NEWFOUNDLAND, St. John's	51
VP1	BRITISH HONDURAS	195
VP2	LEEWARD and WINDWARD ISLANDS	126
VP3	BRITISH GUIANA, Georgetown	133
VP4	TRINIDAD	133
VP5	JAMAICA	156
VP6	BARBADOS ISLANDS	123
VP7	BAHAMAS ISLANDS	144
VP8	FALKLAND ISLANDS	165
	South Georgia Island	155
	South Orkney Islands	162
VP9	BERMUDA	91
VQ1	ZANZIBAR	76
VQ2	NORTHERN RHODESIA, Lusaka	92
VQ3	TANGANYIKA, Dar-Es-Salaam	78
VQ4	KENYA, Nairobi	74
VQ5	UGANDA	75
VQ6	BRITISH SOMALILAND	57
VQ8	CHAGOS ISLANDS	44
	Mauritius	79
VQ9	SEYCHELLES	62
VR1	GILBERT ISLANDS	288
VR2	FIJI ISLANDS	259
VR3	FANNING ISLAND	265
VR4	SOLOMON ISLANDS	290
VR5	TONGA ISLANDS	254
VR6	PITCAIRN ISLAND	224
VS	MALAYA, Singapore	346
VS4	BRITISH NORTH BORNEO	327
VS5	BRUNEI and SARAWAK	330
VS6	HONG KONG	340
VS7	CEYLON	22
VS9	ADEN, Aden	55
VU	INDIA, Bombay	26
	Calcutta	9
	Delhi	17
VU4	LACCADIVE ISLANDS	31
VU5	ANDAMAN ISLANDS	5
XE	MEXICO, Mexico City	227
XZ	BURMA, Rangoon	359
YA	AFGHANISTAN, Kandahar	27
YI	IRAQ, Baghdad	42
YJ	NEW HEBRIDES	264
YK	SYRIA	44
YN	NICARAGUA, Managua	186
YO	ROMANIA, Bucharest	44
YS	SALVADOR, San Salvador	195
YT	YUGOSLAVIA, Belgrade	46
YV	VENEZUELA, Caracas	141
ZA	ALBANIA, Tirana	49
ZB1	MALTA	57
ZB2	GIBRALTAR	63
ZC1	TRANSJORDAN	48
ZC2	COCOS ISLANDS	354
ZC3	CHRISTMAS ISLAND	335
ZC4	CYPRUS	47
ZD1	SIERRA LEONE, Freetown	94
ZD2	NIGERIA, Lagos	86
ZD3	GAMBIA	91
ZD4	GOLD COAST, Accra	89
ZD6	NYASALAND	88
ZD7	ST. HELENA	111
ZD8	ASENCION ISLAND	109
ZD9	TRISTAN da CUNHA	131
ZE	SOUTHERN RHODESIA, Salisbury	93
ZK1	COOK ISLANDS	248
ZK2	NIUE	252
ZL1	NEW ZEALAND, Auckland	242
ZL2	Wellington	238
ZL3	Christchurch	237
ZL4	Dunedin	234
ZM6	SAMOA (British)	257
ZP	PARAGUAY, Asuncion	153
ZS	UNION OF SOUTH AFRICA, Capetown	114
	Durban	106
	Johannesburg	102
ZS3	SOUTH WEST AFRICA, Windhoek	105
ZS7	SWAZILAND	102
ZS8	BASUTOLAND	107
ZS9	BECHUANALAND	100
3A2	MONACO	52
3V8	TUNISIA, Tunis	57
4X4	ISRAEL	49
5A2	LIBYA	60
9S4	SAARLAND	46

BOSTON, MASS.

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	20
AC4	TIBET, Lhasa	17
AG2	TRIESTE	56
AP	PAKISTAN, Karachi	38
C	CHINA, Chungking	2
	Pekin	354
	Shanghai	349
CE	CHILE, Santiago	181
CM	CUBA, Havana	210
CN2	TANGIER ZONE	76
CN8	FRENCH MOROCCO, Casablanca	79
CP	BOLIVIA, La Paz	177
CR4	CAPE VERDE ISLANDS	110
CR5	PORTUGUESE GUINEA	106
CR6	ANGOLA, Nova Lisboa	103
CR7	MOZAMBIQUE, Lourenco Marques	103
	Mocambique	88
CR8	GOA	37
CR9	MACAU	355
CR10	TIMOR ISLAND	331
CT1	PORTUGAL, Lisbon	72
CT2	AZORES	83
CT3	MADERIA ISLANDS	86
CX	URUGUAY, Montevideo	168
DL	GERMANY, Berlin	49
DU	PHILIPPINE ISLANDS, Manila	346
EA	SPAIN, Madrid	69
EA6	BALEARIC ISLANDS	67
EA8	CANARY ISLANDS	90
EA9	SPANISH MOROCCO	76
EI	IRELAND, Dublin	53
EL	LIBERIA, Monrovia	107
EP	IRAN, Tehran	44
ET	ETHIOPIA, Addis Ababa	71
F	FRANCE, Paris	56
FA	ALGERIA, Algiers	70
FB8	MADAGASCAR, Tananarive	87
FC	CORSICA	62
FD8	TOGOLAND	97
FE8	FRENCH CAMEROONS	92
FF8	FRENCH WEST AFRICA, Dakar	105
FG8	GAUDELOUPE	160
FI8	FRENCH INDO CHINA, Saigon	352
FK8	NEW CALEDONIA, Noumea	274
FL8	FRENCH SOMALILAND, Djibouti	66
FM8	MARTINIQUE	161
FO8	FRENCH OCEANIA, Tahiti	249
FP8	MIQUELON and St. PIERRE IS.	64
FQ8	FRENCH EQUATORIAL AFRICA	90
FR8	REUNION ISLAND	83
FT4	TUNISIA, Tunis	67
FU8	NEW HEBRIDES	277
FY8	FRENCH GUIANA, Cayenne	151
G	ENGLAND, London	53
GC	CHANNEL ISLANDS	58
GD	ISLE OF MAN	51
GI	NORTHERN IRELAND, Belfast	51
GM	SCOTLAND, Glasgow	49
GW	WALES	54
HA	HUNGARY, Budapest	52
HB	SWITZERLAND, Bern	57
HC	ECUADOR, Quito	191
HC8	GALAPAGOS ISLANDS	209
HE1	LEICHTENSTEIN	56
HH	HAITI, Port-au-Prince	182
HI	DOMINICAN REPUBLIC	176
HK	COLOMBIA, Bogota	186
HL1	KOREA, Seoul	346
HP	PANAMA	197
HR	HONDURAS, Tegucigalpa	214
HS	SIAM, Bangkok	10
HV	VATICAN CITY	59
HZ	SAUDI ARABIA, Mecca	60
I	ITALY, Rome	59
IS	SARDINIA	63
JA	JAPAN, Tokyo	335
KB6	BAKER ISLAND	280
KC6	CAROLINE ISLANDS	310
KG4	GUANTANAMO BAY, Cuba	190
KG6	GUAM	321
KG6I	IWO JIMA ISLAND	329
KG6S	SAIPAN ISLAND	321
KG6T	TINIAN ISLAND	321
KH6	HAWAIIAN ISLANDS, Honolulu	284
KJ6	JOHNSTON ISLAND	289
KL7	ALASKA, Anchorage	321
	Fairbanks	326
KM6	MIDWAY ISLAND	302
KP4	PUERTO RICO	178
KP6	PALMYRA ISLAND	276
KR6	OKINAWA ISLAND	342
KS4	SWAN ISLAND	208
KS6	SAMOA	267
KV4	VIRGIN ISLANDS	165
KW6	WAKE ISLAND	306
KX6	MARSHALL ISLANDS	293
KZ5	CANAL ZONE	197
LA	NORWAY, Oslo	40
LI	LIBYA, Tripoli	68
LU	ARGENTINA, Buenos Aires	169
LX	LUXEMBOURG	54
LZ	BULGARIA, Sofia	54
MB9	AUSTRIA, Vienna	52
MD1	CIRENAICA	64
MD2	TRIPOLITANIA	68
MD3	ERITREA, Asmara	66
MD4	BRITISH SOMALILAND	65
MD5	SUEZ CANAL ZONE	59
MD6	IRAQ, Baghdad	50
MF2	TRIESTE (British)	56
MI3	ERITREA, Asmara	66
MP4	BAHREIN ISLANDS and OMAN	51
OA	PERU, Lima	187
OD5	LEBANON, Beyrouth	55
OH	FINLAND, Helsinki	36
OE	AUSTRIA, Vienna	52
OK	CZECHOSLOVAKIA, Prague	50
ON	BELGIUM, Brussels	53
OQ5	BELGIAN CONGO, Elisabethville	94
	Leopoldville	96
	Stanleyville	86
OX	GREENLAND, Godthaab	21
OY	FAEROES ISLANDS	39
OZ	DENMARK, Copenhagen	45
PA	NETHERLANDS, Amsterdam	51
PK	JAVA, Batavia	3
PK4	SUMATRA	13
PK5	BORNEO	352
PK6	CELEBES ISLAND	342
PK7	NETHERLAND NEW GUINEA	318
PX	ANDORRA	64
PY	BRAZIL, Natal	137
	Rio de Janeiro	153
PZ	SURINAM, (Netherland Guiana)	155
SM	SWEDEN, Stockholm	39
SP	POLAND, Warsaw	46
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	70
SU	Egypt, Cairo	60
SV	GREECE, Athens	58
SV5	DODECANESE ISLANDS	58
TA	TURKEY, Ankara	52
TF	ICELAND, Reykjavik	35
TG	GUATEMALA, Guatemala City	217
TI	COSTA RICA	204
TR	LIBYA, Tripoli	68
TT	TANNU TUVA, Kyzyl Khoto	10
U	SOVIET UNION, Moscow	37
UB5	UKRAINE	45
UC5	WHITE RUSSIA	43
UD6	AZERBAIJAN	42
UF6	GEORGIA	44
UG6	ARMENIA	45
UH8	TURKOMAN	38
UI8	UZBEK	32
UJ8	TADZHIK	27
UL7	KAZAKH	22
UM8	KIRGHIZ	25
UN1	KARELO-FINNISH REPUBLIC	32
UO5	MOLDAVIA	47
UP	LITHUANIA	42
UQ	LATVIA	40
UR	ESTONIA	38
VE1	CANADA, Halifax	64
VE2	Montreal	331
VE3	Toronto	287
VE4	Winnipeg	301
VE5	Saskatoon	305
VE6	Edmonton	308
VE7	Vancouver	300
VE8	Fort Nelson	317
VK1	HEARD ISLAND	127
VK2	AUSTRALIA, Sydney	270
VK3	Melbourne	268
VK4	Brisbane	278
VK5	Darwin	320
VK6	Perth	351
VK7	TASMANIA, Hobart	255
VK9	NORFOLK ISLAND	265
	PAPUA TERRITORY, Port Moresby	302
VO	NEWFOUNDLAND, St. John's	63
VP1	BRITISH HONDURAS	219
VP2	LEEWARD and WINDWARD ISLANDS	162
VP3	BRITISH GUIANA, Georgetown	160
VP4	TRINIDAD	163
VP5	JAMAICA	194
VP6	BARBADOS ISLANDS	159
VP7	BAHAMAS ISLANDS	199
VP8	FALKLAND ISLANDS	174
	South Georgia Island	162
	South Orkney Islands	168
VP9	BERMUDA	153
VQ1	ZANZIBAR	82
VQ2	NORTHERN RHODESIA, Lusaka	97
VQ3	TANGANYIKA, Dar-Es-Salaam	83
VQ4	KENYA, Nairobi	80
VQ5	UGANDA	82
VQ6	BRITISH SOMALILAND	65
VQ8	CHAGOS ISLANDS	55
	Mauritius	81
VQ9	SEYCHELLES	68
VR1	GILBERT ISLANDS	290
VR2	FIJI ISLANDS	270
VR3	FANNING ISLAND	272
VR4	SOLOMON ISLANDS	293
VR5	TONGA ISLANDS	263
VR6	PITCAIRN ISLAND	231
VS	MALAYA, Singapore	7
VS4	BRITISH NORTH BORNEO	347
VS5	BRUNEI and SARAWAK	351
VS6	HONG KONG	355
VS7	CEYLON	34
VS9	ADEN, Aden	63
VU	INDIA, Bombay	36
	Calcutta	21
	Delhi	30
VU4	LACCADIVE ISLANDS	45
VU5	ANDAMAN ISLANDS	20
XE	MEXICO, Mexico City	235
XZ	BURMA, Rangoon	16
YA	AFGHANISTAN, Kandahar	37
YI	IRAQ, Baghdad	50
YJ	NEW HEBRIDES	277
YK	SYRIA	53
YN	NICARAGUA, Managua	212
YO	ROMANIA, Bucharest	52
YS	SALVADOR, San Salvador	219
YT	YUGOSLAVIA, Belgrade	54
YV	VENEZUELA, Caracas	172
ZA	ALBANIA, Tirana	58
ZB1	MALTA	66
ZB2	GIBRALTAR	74
ZC1	TRANSJORDAN	58
ZC2	COCOS ISLANDS	21
ZC3	CHRISTMAS ISLAND	6
ZC4	CYPRUS	56
ZD1	SIERRA LEONE, Freetown	108
ZD2	NIGERIA, Lagos	97
ZD3	GAMBIA	106
ZD4	GOLD COAST, Accra	100
ZD6	NYASALAND	93
ZD7	ST. HELENA	119
ZD8	ASENCION ISLAND	120
ZD9	TRISTAN da CUNHA	138
ZE	SOUTHERN RHODESIA, Salisbury	97
ZK1	COOK ISLANDS	257
ZK2	NIUE	262
ZL1	NEW ZEALAND, Auckland	253
ZL2	Wellington	248
ZL3	Christchurch	245
ZL4	Dunedin	243
ZM6	SAMOA (British)	266
ZP	PARAGUAY, Asuncion	167
ZS	UNION OF SOUTH AFRICA, Capetown	108
	Durban	108
	Johannesburg	105
ZS3	SOUTH WEST AFRICA, Windhoek	110
ZS7	SWAZILAND	104
ZS8	BASUTOLAND	109
ZS9	BECHUANALAND	103
3A2	MONACO	61
3V8	TUNISIA, Tunis	67
4X4	ISRAEL	57
5A2	LIBYA	68
9S4	SAARLAND	54

BUFFALO, NEW YORK

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	13
AC4	TIBET, Lhasa	10
AG2	TRIESTE	53
AP	PAKISTAN, Karachi	33
C	CHINA, Chungking	356
	Pekin	350
	Shanghai	342
CE	CHILE, Santiago	173
CM	CUBA, Havana	189
CN2	TANGIER ZONE	72
CN8	FRENCH MOROCCO, Casablanca	75
CP	BOLIVIA, La Paz	168
CR4	CAPE VERDE ISLANDS	103
CR5	PORTUGUESE GUINEA	101
CR6	ANGOLA, Nova Lisboa	98
CR7	MOZAMBIQUE, Lourenco Marques	98
	Mocambique	82
CR8	GOA	31
CR9	MACAU	349
CR10	TIMOR ISLAND	320
CT1	PORTUGAL, Lisbon	70
CT2	AZORES	79
CT3	MADERIA ISLANDS	81
CX	URUGUAY, Montevideo	161
DL	GERMANY, Berlin	46
DU	PHILIPPINE ISLANDS, Manila	338
EA	SPAIN, Madrid	65
EA6	BALEARIC ISLANDS	64
EA8	CANARY ISLANDS	85
EA9	SPANISH MOROCCO	70
EI	IRELAND, Dublin	51
EL	LIBERIA, Monrovia	101
EP	IRAN, Tehran	39
ET	ETHIOPIA, Addis Ababa	65
F	FRANCE, Paris	53
FA	ALGERIA, Algiers	66
FB8	MADAGASCAR, Tananarive	81
FC	CORSICA	58
FD8	TOGOLAND	91
FE8	FRENCH CAMEROONS	87
FF8	FRENCH WEST AFRICA, Dakar	99
FG8	GAUDELOUPE	147
FI8	FRENCH INDO CHINA, Saigon	354
FK8	NEW CALEDONIA, Noumea	270
FL8	FRENCH SOMALILAND, Djibouti	61
FM8	MARTINIQUE	148
FO8	FRENCH OCEANIA, Tahiti	245
FP8	MIQUELON and St. PIERRE IS	69
FQ8	FRENCH EQUATORIAL AFRICA	80
FR8	REUNION ISLAND	77
FT4	TUNISIA, Tunis	63
FU8	NEW HEBRIDES	273
FY8	FRENCH GUIANA, Cayenne	142
G	ENGLAND, London	51
GC	CHANNEL ISLANDS	55
GD	ISLE OF MAN	50
GI	NORTHERN IRELAND, Belfast	49
GM	SCOTLAND, Glasgow	48
GW	WALES	52
HA	HUNGARY, Budapest	49
HB	SWITZERLAND, Bern	53
HC	ECUADOR, Quito	179
HC8	GALAPAGOS ISLANDS	200
HE1	LEICHTENSTEIN	53
HH	HAITI, Port-au-Prince	165
HI	DOMINICAN REPUBLIC	160
HK	COLOMBIA, Bogota	172
HL1	KOREA, Seoul	340
HP	PANAMA	183
HR	HONDURAS, Tegucigalpa	197
HS	SIAM, Bangkok	1
HV	VATICAN CITY	56
HZ	SAUDI ARABIA, Mecca	56
I	ITALY, Rome	56
IS	SARDINIA	60
JA	JAPAN, Tokyo	329
KB6	BAKER ISLAND	276
KC6	CAROLINE ISLANDS	305
KG4	GUANTANAMO BAY, Cuba	171
KG6	GUAM	315
KG6I	IWO JIMA ISLAND	323
KG6S	SAIPAN ISLAND	315
KG6T	TINIAN ISLAND	315
KH6	HAWAIIAN ISLANDS, Honolulu	279
KJ6	JOHNSTON ISLAND	285
KL7	ALASKA, Anchorage	320
	Fairbanks	325
KM6	MIDWAY ISLAND	297
KP4	PUERTO RICO	153
KP6	PALMYRA ISLAND	272
KR6	OKINAWA ISLAND	336
KS4	SWAN ISLAND	192
KS6	SAMOA	263
KV4	VIRGIN ISLANDS	149
KW6	WAKE ISLAND	302
KX6	MARSHALL ISLANDS	293
KZ5	CANAL ZONE	183
LA	NORWAY, Oslo	38
LI	LIBYA, Tripoli	65
LU	ARGENTINA, Buenos Aires	163
LX	LUXEMBOURG	52
LZ	BULGARIA, Sofia	51
MB9	AUSTRIA, Vienna	50
MD1	CIRENAICA	60
MD2	TRIPOLITANIA	64
MD3	ERITREA, Asmara	61
MD4	BRITISH SOMALILAND	59
MD5	SUEZ CANAL ZONE	55
MD6	IRAQ, Baghdad	45
MF2	TRIESTE (British)	53
MI3	ERITREA, Asmara	61
MP4	BAHREIN ISLANDS and OMAN	46
OA	PERU, Lima	178
OD5	LEBANON, Beyrouth	51
OH	FINLAND, Helsinki	34
OE	AUSTRIA, Vienna	50
OK	CZECHOSLOVAKIA, Prague	41
ON	BELGIUM, Brussels	51
OQ5	BELGIAN CONGO, Elisabethville	89
	Leopoldville	92
	Stanleyville	81
OX	GREENLAND, Godthaab	27
OY	FAEROES ISLANDS	39
OZ	DENMARK, Copenhagen	42
PA	NETHERLANDS, Amsterdam	49
PK	JAVA, Batavia	351
PK4	SUMATRA	4
PK5	BORNEO	358
PK6	CELEBES ISLAND	332
PK7	NETHERLAND NEW GUINEA	309
PX	ANDORRA	61
PY	BRAZIL, Natal	131
	Rio de Janeiro	146
PZ	SURINAM, (Netherland Guiana)	38
SM	SWEDEN, Stockholm	37
SP	POLAND, Warsaw	44
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	65
SU	Egypt, Cairo	55
SV	GREECE, Athens	54
SV5	DODECANESE ISLANDS	53
TA	TURKEY, Ankara	48
TF	ICELAND, Reykjavik	37
TG	GUATEMALA, Guatemala City	203
TI	COSTA RICA	189
TR	LIBYA, Tripoli	64
TT	TANNU TUVA, Kyzyl Khoto	4
U	SOVIET UNION, Moscow	34
UB5	UKRAINE	41
UC5	WHITE RUSSIA	39
UD6	AZERBAIJAN	38
UF6	GEORGIA	42
UG6	ARMENIA	41
UH8	TURKOMAN	33
UI8	UZBEK	28
UJ8	TADZHIK	23
UL7	KAZAKH	21
UM8	KIRGHIZ	27
UN1	KARELO-FINNISH REPUBLIC	28
UO5	MOLDAVIA	45
UP	LITHUANIA	40
UQ	LATVIA	38
UR	ESTONIA	36
VE1	CANADA, Halifax	74
VE2	Montreal	54
VE3	Toronto	334
VE4	Winnipeg	306
VE5	Saskatoon	307
VE6	Edmonton	309
VE7	Vancouver	299
VE8	Fort Nelson	317
VK1	HEARD ISLAND	131
VK2	AUSTRALIA, Sydney	226
VK3	Melbourne	263
VK4	Brisbane	273
VK5	Darwin	310
VK6	Perth	308
VK7	TASMANIA, Hobart	254
VK9	NORFOLK ISLAND	261
	PAPUA TERRITORY, Port Moresby	296
VO	NEWFOUNDLAND, St. John's	64
VP1	BRITISH HONDURAS	201
VP2	LEEWARD and WINDWARD ISLANDS	135
VP3	BRITISH GUIANA, Georgetown	146
VP4	TRINIDAD	150
VP5	JAMAICA	176
VP6	BARBADOS ISLANDS	143
VP7	BAHAMAS ISLANDS	178
VP8	FALKLAND ISLANDS	169
	South Georgia Island	158
	South Orkney Islands	164
VP9	BERMUDA	130
VQ1	ZANZIBAR	76
VQ2	NORTHERN RHODESIA, Lusaka	91
VQ3	TANGANYIKA, Dar-Es-Salaam	77
VQ4	KENYA, Nairobi	74
VQ5	UGANDA	77
VQ6	BRITISH SOMALILAND	59
VQ8	CHAGOS ISLANDS	45
	Mauritius	74
VQ9	SEYCHELLES	61
VR1	GILBERT ISLANDS	283
VR2	FIJI ISLANDS	265
VR3	FANNING ISLAND	267
VR4	SOLOMON ISLANDS	285
VR5	TONGA ISLANDS	260
VR6	PITCAIRN ISLAND	225
VS	MALAYA, Singapore	356
VS4	BRITISH NORTH BORNEO	338
VS5	BRUNEI and SARAWAK	342
VS6	HONG KONG	349
VS7	CEYLON	25
VS9	ADEN, Aden	55
VU	INDIA, Bombay	29
	Calcutta	11
	Delhi	21
VU4	LACCADIVE ISLANDS	35
VU5	ANDAMAN ISLANDS	11
XE	MEXICO, Mexico City	222
XZ	BURMA, Rangoon	5
YA	AFGHANISTAN, Kandahar	28
YI	IRAQ, Baghdad	45
YJ	NEW HEBRIDES	272
YK	SYRIA	48
YN	NICARAGUA, Managua	197
YO	ROMANIA, Bucharest	48
YS	SALVADOR, San Salvador	201
YT	YUGOSLAVIA, Belgrade	51
YV	VENEZUELA, Caracas	159
ZA	ALBANIA, Tirana	54
ZB1	MALTA	61
ZB2	GIBRALTAR	71
ZC1	TRANSJORDAN	52
ZC2	COCOS ISLANDS	5
ZC3	CHRISTMAS ISLAND	351
ZC4	CYPRUS	51
ZD1	SIERRA LEONE, Freetown	101
ZD2	NIGERIA, Lagos	91
ZD3	GAMBIA	100
ZD4	GOLD COAST, Accra	95
ZD6	NYASALAND	87
ZD7	ST. HELENA	115
ZD8	ASENCION ISLAND	115
ZD9	TRISTAN da CUNHA	134
ZE	SOUTHERN RHODESIA, Salisbury	92
ZK1	COOK ISLANDS	252
ZK2	NIUE	256
ZL1	NEW ZEALAND, Auckland	250
ZL2	Wellington	245
ZL3	Christchurch	243
ZL4	Dunedin	241
ZM6	SAMOA (British)	260
ZP	PARAGUAY, Asuncion	160
ZS	UNION OF SOUTH AFRICA, Capetown	113
	Durban	103
	Johannesburg	99
ZS3	SOUTH WEST AFRICA, Windhoek	105
ZS7	SWAZILAND	100
ZS8	BASUTOLAND	105
ZS9	BECHUANALAND	101
3A2	MONACO	58
3V8	TUNISIA, Tunis	63
4X4	ISRAEL	53
5A2	LIBYA	65
9S4	SAARLAND	50

CHICAGO, ILLINOIS

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	3
AC4	TIBET, Lhasa	1
AG2	TRIESTE	48
AP	PAKISTAN, Karachi	25
C	CHINA, Chungking	348
	Pekin	342
	Shanghai	335
CE	CHILE, Santiago	166
CM	CUBA, Havana	165
CN2	TANGIER ZONE	66
CN8	FRENCH MOROCCO, Casablanca	69
CP	BOLIVIA, La Paz	158
CR4	CAPE VERDE ISLANDS	96
CR5	PORTUGUESE GUINEA	93
CR6	ANGOLA, Nova Lisboa	92
CR7	MOZAMBIQUE, Lourenco Marques	92
	Mocambique	75
CR8	GOA	22
CR9	MACAU	340
CR10	TIMOR ISLAND	319
CT1	PORTUGAL, Lisbon	65
CT2	AZORES	74
CT3	MADERIA ISLANDS	75
CX	URUGUAY, Montevideo	154
DL	GERMANY, Berlin	42
DU	PHILIPPINE ISLANDS, Manila	328
EA	SPAIN, Madrid	60
EA6	BALEARIC ISLANDS	58
EA8	CANARY ISLANDS	79
EA9	SPANISH MOROCCO	67
EI	IRELAND, Dublin	48
EL	LIBERIA, Monrovia	94
EP	IRAN, Tehran	32
ET	ETHIOPIA, Addis Ababa	58
F	FRANCE, Paris	50
FA	ALGERIA, Algiers	61
FB8	MADAGASCAR, Tananarive	74
FC	CORSICA	53
FD8	TOGOLAND	85
FE8	FRENCH CAMEROONS	80
FF8	FRENCH WEST AFRICA, Dakar	92
FG8	GAUDELOUPE	132
FI8	FRENCH INDO CHINA, Saigon	343
FK8	NEW CALEDONIA, Noumea	264
FL8	FRENCH SOMALILAND, Djibouti	53
FM8	MARTINIQUE	132
FO8	FRENCH OCEANIA, Tahiti	239
FP8	MIQUELON and St. PIERRE IS.	68
FQ8	FRENCH EQUATORIAL AFRICA	77
FR8	REUNION ISLAND	65
FT4	TUNISIA, Tunis	57
FU8	NEW HEBRIDES	264
FY8	FRENCH GUIANA, Cayenne	130
G	ENGLAND, London	48
GC	CHANNEL ISLANDS	50
GD	ISLE OF MAN	47
GI	NORTHERN IRELAND, Belfast	47
GM	SCOTLAND, Glasgow	45
GW	WALES	49
HA	HUNGARY, Budapest	44
HB	SWITZERLAND, Bern	49
HC	ECUADOR, Quito	167
HC8	GALAPAGOS ISLANDS	185
HE1	LEICHTENSTEIN	49
HH	HAITI, Port-au-Prince	145
HI	DOMINICAN REPUBLIC	139
HK	COLOMBIA, Bogota	158
HL1	KOREA, Seoul	334
HP	PANAMA	168
HR	HONDURAS, Tegucigalpa	181
HS	SIAM, Bangkok	351
HV	VATICAN CITY	51
HZ	SAUDI ARABIA, Mecca	49
I	ITALY, Rome	51
IS	SARDINIA	55
JA	JAPAN, Tokyo	323
KB6	BAKER ISLAND	270
KC6	CAROLINE ISLANDS	297
KG4	GUANTANAMO BAY, Cuba	150
KG6	GUAM	306
KG6I	IWO JIMA ISLAND	317
KG6S	SAIPAN ISLAND	307
KG6T	TINIAN ISLAND	307
KH6	HAWAIIAN ISLANDS, Honolulu	274
KJ6	JOHNSTON ISLAND	278
KL7	ALASKA, Anchorage	320
	Fairbanks	326
KM6	MIDWAY ISLAND	290
KP4	PUERTO RICO	123
KP6	PALMYRA ISLAND	264
KR6	OKINAWA ISLAND	327
KS4	SWAN ISLAND	173
KS6	SAMOA	255
KV4	VIRGIN ISLANDS	133
KW6	WAKE ISLAND	294
KX6	MARSHALL ISLANDS	285
KZ5	CANAL ZONE	168
LA	NORWAY, Oslo	36
LI	LIBYA, Tripoli	58
LU	ARGENTINA, Buenos Aires	156
LX	LUXEMBOURG	48
LZ	BULGARIA, Sofia	46
MB9	AUSTRIA, Vienna	45
MD1	CIRENAICA	54
MD2	TRIPOLITANIA	59
MD3	ERITREA, Asmara	53
MD4	BRITISH SOMALILAND	51
MD5	SUEZ CANAL ZONE	49
MD6	IRAQ, Baghdad	39
MF2	TRIESTE (British)	48
MI3	ERITREA, Asmara	53
MP4	BAHREIN ISLANDS and OMAN	38
OA	PERU, Lima	167
OD5	LEBANON, Beyrouth	44
OH	FINLAND, Helsinki	31
OE	AUSTRIA, Vienna	45
OK	CZECHOSLOVAKIA, Prague	44
ON	BELGIUM, Brussels	47
OQ5	BELGIAN CONGO, Elisabethville	82
	Leopoldville	85
	Stanleyville	74
OX	GREENLAND, Godthaab	31
OY	FAEROES ISLANDS	38
OZ	DENMARK, Copenhagen	39
PA	NETHERLANDS, Amsterdam	45
PK	JAVA, Batavia	335
PK4	SUMATRA	347
PK5	BORNEO	329
PK6	CELEBES ISLAND	320
PK7	NETHERLAND NEW GUINEA	299
PX	ANDORRA	56
PY	BRAZIL, Natal	122
	Rio de Janeiro	138
PZ	SURINAM, (Netherland Guiana)	133
SM	SWEDEN, Stockholm	34
SP	POLAND, Warsaw	39
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	58
SU	Egypt, Cairo	49
SV	GREECE, Athens	49
SV5	DODECANESE ISLANDS	49
TA	TURKEY, Ankara	42
TF	ICELAND, Reykjavik	36
TG	GUATEMALA, Guatemala City	186
TI	COSTA RICA	173
TR	LIBYA, Tripoli	59
TT	TANNU TUVA, Kyzyl Khoto	358
U	SOVIET UNION, Moscow	29
UB5	UKRAINE	36
UC5	WHITE RUSSIA	35
UD6	AZERBAIJAN	31
UF6	GEORGIA	36
UG6	ARMENIA	37
UH8	TURKOMAN	26
UI8	UZBEK	19
UJ8	TADZHIK	17
UL7	KAZAKH	14
UM8	KIRGHIZ	12
UN1	KARELO-FINNISH REPUBLIC	29
UO5	MOLDAVIA	39
UP	LITHUANIA	35
UQ	LATVIA	34
UR	ESTONIA	32
VE1	CANADA, Halifax	73
VE2	Montreal	66
VE3	Toronto	71
VE4	Winnipeg	324
VE5	Saskatoon	317
VE6	Edmonton	315
VE7	Vancouver	300
VE8	Fort Nelson	321
VK1	HEARD ISLAND	137
VK2	AUSTRALIA, Sydney	260
VK3	Melbourne	257
VK4	Brisbane	266
VK5	Darwin	298
VK6	Perth	291
VK7	TASMANIA, Hobart	248
VK9	NORFOLK ISLAND	254
	PAPUA TERRITORY, Port Moresby	287
VO	NEWFOUNDLAND, St. John's	65
VP1	BRITISH HONDURAS	181
VP2	LEEWARD and WINDWARD ISLANDS	133
VP3	BRITISH GUIANA, Georgetown	135
VP4	TRINIDAD	135
VP5	JAMAICA	162
VP6	BARBADOS ISLANDS	131
VP7	BAHAMAS ISLANDS	150
VP8	FALKLAND ISLANDS	155
	South Georgia Island	142
	South Orkney Islands	140
VP9	BERMUDA	112
VQ1	ZANZIBAR	69
VQ2	NORTHERN RHODESIA, Lusaka	86
VQ3	TANGANYIKA, Dar-Es-Salaam	70
VQ4	KENYA, Nairobi	68
VQ5	UGANDA	70
VQ6	BRITISH SOMALILAND	52
VQ8	CHAGOS ISLANDS	34
	Mauritius	66
VQ9	SEYCHELLES	53
VR1	GILBERT ISLANDS	255
VR2	FIJI ISLANDS	259
VR3	FANNING ISLAND	262
VR4	SOLOMON ISLANDS	280
VR5	TONGA ISLANDS	253
VR6	PITCAIRN ISLAND	220
VS	MALAYA, Singapore	343
VS4	BRITISH NORTH BORNEO	327
VS5	BRUNEI and SARAWAK	330
VS6	HONG KONG	338
VS7	CEYLON	16
VS9	ADEN, Aden	49
VU	INDIA, Bombay	22
	Calcutta	15
	Delhi	21
VU4	LACCADIVE ISLANDS	25
VU5	ANDAMAN ISLANDS	359
XE	MEXICO, Mexico City	207
XZ	BURMA, Rangoon	355
YA	AFGHANISTAN, Kandahar	23
YI	IRAQ, Baghdad	38
YJ	NEW HEBRIDES	266
YK	SYRIA	42
YN	NICARAGUA, Managua	178
YO	ROMANIA, Bucharest	43
YS	SALVADOR, San Salvador	182
YT	YUGOSLAVIA, Belgrade	46
YV	VENEZUELA, Caracas	145
ZA	ALBANIA, Tirana	49
ZB1	MALTA	56
ZB2	GIBRALTAR	67
ZC1	TRANSJORDAN	47
ZC2	COCOS ISLANDS	350
ZC3	CHRISTMAS ISLAND	335
ZC4	CYPRUS	44
ZD1	SIERRA LEONE, Freetown	94
ZD2	NIGERIA, Lagos	84
ZD3	GAMBIA	92
ZD4	GOLD COAST, Accra	88
ZD6	NYASALAND	81
ZD7	ST. HELENA	109
ZD8	ASENCION ISLAND	107
ZD9	TRISTAN da CUNHA	112
ZE	SOUTHERN RHODESIA, Salisbury	86
ZK1	COOK ISLANDS	246
ZK2	NIUE	251
ZL1	NEW ZEALAND, Auckland	245
ZL2	Wellington	240
ZL3	Christchurch	238
ZL4	Dunedin	237
ZM6	SAMOA (British)	255
ZP	PARAGUAY, Asuncion	152
ZS	UNION OF SOUTH AFRICA, Capetown	108
	Durban	98
	Johannesburg	95
ZS3	SOUTH WEST AFRICA, Windhoek	99
ZS7	SWAZILAND	94
ZS8	BASUTOLAND	99
ZS9	BECHUANALAND	94
3A2	MONACO	53
3V8	TUNISIA, Tunis	57
4X4	ISRAEL	47
5A2	LIBYA	57
9S4	SAARLAND	48

DENVER, COLORADO

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	347
AC4	TIBET, Lhasa	345
AG2	TRIESTE	40
AP	PAKISTAN, Karachi	7
C	CHINA, Chungking	332
	Pekin	330
	Shanghai	321
CE	CHILE, Santiago	152
CM	CUBA, Havana	124
CN2	TANGIER ZONE	58
CN8	FRENCH MOROCCO, Casablanca	60
CP	BOLIVIA, La Paz	141
CR4	CAPE VERDE ISLANDS	85
CR5	PORTUGUESE GUINEA	83
CR6	ANGOLA, Nova Lisboa	81
CR7	MOZAMBIQUE, Lourenco Marques	83
	Mocambique	62
CR8	GOA	1
CR9	MACAU	323
CR10	TIMOR ISLAND	290
CT1	PORTUGAL, Lisbon	56
CT2	AZORES	65
CT3	MADERIA ISLANDS	66
CX	URUGUAY, Montevideo	142
DL	GERMANY, Berlin	35
DU	PHILIPPINE ISLANDS, Manila	312
EA	SPAIN, Madrid	52
EA6	BALEARIC ISLANDS	50
EA8	CANARY ISLANDS	69
EA9	SPANISH MOROCCO	57
EI	IRELAND, Dublin	42
EL	LIBERIA, Monrovia	83
EP	IRAN, Tehran	21
ET	ETHIOPIA, Addis Ababa	44
F	FRANCE, Paris	43
FA	ALGERIA, Algiers	52
FB8	MADAGASCAR, Tananarive	57
FC	CORSICA	45
FD8	TOGOLAND	74
FE8	FRENCH CAMEROONS	70
FF8	FRENCH WEST AFRICA, Dakar	81
FG8	GAUDELOUPE	111
FI8	FRENCH INDO CHINA, Saigon	223
FK8	NEW CALEDONIA, Noumea	252
FL8	FRENCH SOMALILAND, Djibouti	39
FM8	MARTINIQUE	112
FO8	FRENCH OCEANIA, Tahiti	225
FP8	MIQUELON and St. PIERRE IS.	63
FQ8	FRENCH EQUATORIAL AFRICA	67
FR8	REUNION ISLAND	50
FT4	TUNISIA, Tunis	48
FU8	NEW HEBRIDES	252
FY8	FRENCH GUIANA, Cayenne	113
G	ENGLAND, London	42
GC	CHANNEL ISLANDS	44
GD	ISLE OF MAN	41
GI	NORTHERN IRELAND, Belfast	41
GM	SCOTLAND, Glasgow	39
GW	WALES	42
HA	HUNGARY, Budapest	37
HB	SWITZERLAND, Bern	42
HC	ECUADOR, Quito	142
HC8	GALAPAGOS ISLANDS	160
HE1	LEICHTENSTEIN	41
HH	HAITI, Port-au-Prince	118
HI	DOMINICAN REPUBLIC	111
HK	COLOMBIA, Bogota	133
HL1	KOREA, Seoul	321
HP	PANAMA	138
HR	HONDURAS, Tegucigalpa	146
HS	SIAM, Bangkok	330
HV	VATICAN CITY	42
HZ	SAUDI ARABIA, Mecca	36
I	ITALY, Rome	42
IS	SARDINIA	46
JA	JAPAN, Tokyo	313
KB6	BAKER ISLAND	258
KC6	CAROLINE ISLANDS	285
KG4	GUANTANAMO BAY, Cuba	119
KG6	GUAM	293
KG6I	IWO JIMA ISLAND	304
KG6S	SAIPAN ISLAND	294
KG6T	TINIAN ISLAND	295
KH6	HAWAIIAN ISLANDS, Honolulu	264
KJ6	JOHNSTON ISLAND	288
KL7	ALASKA, Anchorage	323
	Fairbanks	329
KM6	MIDWAY ISLAND	284
KP4	PUERTO RICO	116
KP6	PALMYRA ISLAND	254
KR6	OKINAWA ISLAND	314
KS4	SWAN ISLAND	135
KS6	SAMOA	244
KV4	VIRGIN ISLANDS	109
KW6	WAKE ISLAND	285
KX6	MARSHALL ISLANDS	275
KZ5	CANAL ZONE	138
LA	NORWAY, Oslo	30
LI	LIBYA, Tripoli	49
LU	ARGENTINA, Buenos Aires	143
LX	LUXEMBOURG	39
LZ	BULGARIA, Sofia	36
MB9	AUSTRIA, Vienna	37
MD1	CIRENAICA	43
MD2	TRIPOLITANIA	49
MD3	ERITREA, Asmara	40
MD4	BRITISH SOMALILAND	36
MD5	SUEZ CANAL ZONE	37
MD6	IRAQ, Baghdad	27
MF2	TRIESTE (British)	40
MI3	ERITREA, Asmara	40
MP4	BAHREIN ISLANDS and OMAN	24
OA	PERU, Lima	147
OD5	LEBANON, Beyrouth	33
OH	FINLAND, Helsinki	24
OE	AUSTRIA, Vienna	37
OK	CZECHOSLOVAKIA, Prague	35
ON	BELGIUM, Brussels	40
OQ5	BELGIAN CONGO, Elisabethville	71
	Leopoldville	74
	Stanleyville	62
OX	GREENLAND, Godthaab	34
OY	FAEROES ISLANDS	33
OZ	DENMARK, Copenhagen	33
PA	NETHERLANDS, Amsterdam	38
PK	JAVA, Batavia	310
PK4	SUMATRA	312
PK5	BORNEO	308
PK6	CELEBES ISLAND	301
PK7	NETHERLAND NEW GUINEA	285
PX	ANDORRA	48
PY	BRAZIL, Natal	109
	Rio de Janeiro	125
PZ	SURINAM, (Netherland Guiana)	115
SM	SWEDEN, Stockholm	27
SP	POLAND, Warsaw	32
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	46
SU	Egypt, Cairo	38
SV	GREECE, Athens	39
SV5	DODECANESE ISLANDS	38
TA	TURKEY, Ankara	32
TF	ICELAND, Reykjavik	34
TG	GUATEMALA, Guatemala City	149
TI	COSTA RICA	142
TR	LIBYA, Tripoli	49
TT	TANNU TUVA, Kyzyl Khoto	348
U	SOVIET UNION, Moscow	21
UB5	UKRAINE	27
UC5	WHITE RUSSIA	27
UD6	AZERBAIJAN	20
UF6	GEORGIA	23
UG6	ARMENIA	24
UH8	TURKOMAN	15
UI8	UZBEK	7
UJ8	TADZHIK	5
UL7	KAZAKH	6
UM8	KIRGHIZ	2
UN1	KARELO-FINNISH REPUBLIC	18
UO5	MOLDAVIA	31
UP	LITHUANIA	29
UQ	LATVIA	27
UR	ESTONIA	25
VE1	CANADA, Halifax	67
VE2	Montreal	66
VE3	Toronto	70
VE4	Winnipeg	25
VE5	Saskatoon	355
VE6	Edmonton	340
VE7	Vancouver	314
VE8	Fort Nelson	335
VK1	HEARD ISLAND	172
VK2	AUSTRALIA, Sydney	249
VK3	Melbourne	248
VK4	Brisbane	256
VK5	Darwin	283
VK6	Perth	271
VK7	TASMANIA, Hobart	241
VK9	NORFOLK ISLAND	245
	PAPUA TERRITORY, Port Moresby	274
VO	NEWFOUNDLAND, St. John's	61
VP1	BRITISH HONDURAS	143
VP2	LEEWARD and WINDWARD ISLANDS	109
VP3	BRITISH GUIANA, Georgetown	116
VP4	TRINIDAD	115
VP5	JAMAICA	124
VP6	BARBADOS ISLANDS	111
VP7	BAHAMAS ISLANDS	115
VP8	FALKLAND ISLANDS	153
	South Georgia Island	145
	South Orkney Islands	154
VP9	BERMUDA	91
VQ1	ZANZIBAR	54
VQ2	NORTHERN RHODESIA, Lusaka	74
VQ3	TANGANYIKA, Dar-Es-Salaam	56
VQ4	KENYA, Nairobi	53
VQ5	UGANDA	56
VQ6	BRITISH SOMALILAND	37
VQ8	CHAGOS ISLANDS	9
	Mauritius	44
VQ9	SEYCHELLES	33
VR1	GILBERT ISLANDS	265
VR2	FIJI ISLANDS	248
VR3	FANNING ISLAND	249
VR4	SOLOMON ISLANDS	267
VR5	TONGA ISLANDS	240
VR6	PITCAIRN ISLAND	204
VS	MALAYA, Singapore	320
VS4	BRITISH NORTH BORNEO	308
VS5	BRUNEI and SARAWAK	311
VS6	HONG KONG	322
VS7	CEYLON	353
VS9	ADEN, Aden	35
VU	INDIA, Bombay	2
	Calcutta	347
	Delhi	359
VU4	LACCADIVE ISLANDS	5
VU5	ANDAMAN ISLANDS	338
XE	MEXICO, Mexico City	164
XZ	BURMA, Rangoon	336
YA	AFGHANISTAN, Kandahar	9
YI	IRAQ, Baghdad	27
YJ	NEW HEBRIDES	254
YK	SYRIA	32
YN	NICARAGUA, Managua	145
YO	ROMANIA, Bucharest	33
YS	SALVADOR, San Salvador	148
YT	YUGOSLAVIA, Belgrade	37
YV	VENEZUELA, Caracas	120
ZA	ALBANIA, Tirana	39
ZB1	MALTA	47
ZB2	GIBRALTAR	56
ZC1	TRANSJORDAN	35
ZC2	COCOS ISLANDS	318
ZC3	CHRISTMAS ISLAND	310
ZC4	CYPRUS	34
ZD1	SIERRA LEONE, Freetown	83
ZD2	NIGERIA, Lagos	74
ZD3	GAMBIA	82
ZD4	GOLD COAST, Accra	77
ZD6	NYASALAND	68
ZD7	ST. HELENA	99
ZD8	ASENCION ISLAND	100
ZD9	TRISTAN da CUNHA	120
ZE	SOUTHERN RHODESIA, Salisbury	74
ZK1	COOK ISLANDS	235
ZK2	NIUE	240
ZL1	NEW ZEALAND, Auckland	235
ZL2	Wellington	232
ZL3	Christchurch	231
ZL4	Dunedin	231
ZM6	SAMOA (British)	245
ZP	PARAGUAY, Asuncion	137
ZS	UNION OF SOUTH AFRICA, Capetown	101
	Durban	89
	Johannesburg	85
ZS3	SOUTH WEST AFRICA, Windhoek	90
ZS7	SWAZILAND	85
ZS8	BASUTOLAND	92
ZS9	BECHUANALAND	85
3A2	MONACO	44
3V8	TUNISIA, Tunis	48
4X4	ISRAEL	35
5A2	LIBYA	48
9S4	SAARLAND	40

DETROIT, MICHIGAN

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	8
AC4	TIBET, Lhasa	6
AG2	TRIESTE	51
AP	PAKISTAN, Karachi	28
C	CHINA, Chungking	351
	Pekin	345
	Shanghai	339
CE	CHILE, Santiago	169
CM	CUBA, Havana	178
CN2	TANGIER ZONE	69
CN8	FRENCH MOROCCO, Casablanca	72
CP	BOLIVIA, La Paz	163
CR4	CAPE VERDE ISLANDS	100
CR5	PORTUGUESE GUINEA	97
CR6	ANGOLA, Nova Lisboa	95
CR7	MOZAMBIQUE, Lourenco Marques	95
	Mocambique	79
CR8	GOA	27
CR9	MACAU	342
CR10	TIMOR ISLAND	313
CT1	PORTUGAL, Lisbon	67
CT2	AZORES	77
CT3	MADERIA ISLANDS	79
CX	URUGUAY, Montevideo	159
DL	GERMANY, Berlin	44
DU	PHILIPPINE ISLANDS, Manila	333
EA	SPAIN, Madrid	63
EA6	BALEARIC ISLANDS	61
EA8	CANARY ISLANDS	82
EA9	SPANISH MOROCCO	69
EI	IRELAND, Dublin	49
EL	LIBERIA, Monrovia	98
EP	IRAN, Tehran	36
ET	ETHIOPIA, Addis Ababa	62
F	FRANCE, Paris	52
FA	ALGERIA, Algiers	63
FB8	MADAGASCAR, Tananarive	77
FC	CORSICA	56
FD8	TOGOLAND	87
FE8	FRENCH CAMEROONS	82
FF8	FRENCH WEST AFRICA, Dakar	96
FG8	GAUDELOUPE	137
FI8	FRENCH INDO CHINA, Saigon	349
FK8	NEW CALEDONIA, Noumea	265
FL8	FRENCH SOMALILAND, Djibouti	57
FM8	MARTINIQUE	138
FO8	FRENCH OCEANIA, Tahiti	241
FP8	MIQUELON and St. PIERRE IS	69
FQ8	FRENCH EQUATORIAL AFRICA	79
FR8	REUNION ISLAND	73
FT4	TUNISIA, Tunis	60
FU8	NEW HEBRIDES	268
FY8	FRENCH GUIANA, Cayenne	135
G	ENGLAND, London	50
GC	CHANNEL ISLANDS	51
GD	ISLE OF MAN	49
GI	NORTHERN IRELAND, Belfast	48
GM	SCOTLAND, Glasgow	46
GW	WALES	49
HA	HUNGARY, Budapest	47
HB	SWITZERLAND, Bern	51
HC	ECUADOR, Quito	173
HC8	GALAPAGOS ISLANDS	195
HE1	LEICHTENSTEIN	50
HH	HAITI, Port-au-Prince	155
HI	DOMINICAN REPUBLIC	150
HK	COLOMBIA, Bogota	166
HL1	KOREA, Seoul	336
HP	PANAMA	174
HR	HONDURAS, Tegucigalpa	189
HS	SIAM, Bangkok	355
HV	VATICAN CITY	54
HZ	SAUDI ARABIA, Mecca	52
I	ITALY, Rome	54
IS	SARDINIA	58
JA	JAPAN, Tokyo	326
KB6	BAKER ISLAND	271
KC6	CAROLINE ISLANDS	302
KG4	GUANTANAMO BAY, Cuba	161
KG6	GUAM	310
KG6I	IWO JIMA ISLAND	319
KG6S	SAIPAN ISLAND	310
KG6T	TINIAN ISLAND	310
KH6	HAWAIIAN ISLANDS, Honolulu	277
KJ6	JOHNSTON ISLAND	280
KL7	ALASKA, Anchorage	320
	Fairbanks	327
KM6	MIDWAY ISLAND	294
KP4	PUERTO RICO	145
KP6	PALMYRA ISLAND	269
KR6	OKINAWA ISLAND	331
KS4	SWAN ISLAND	181
KS6	SAMOA	259
KV4	VIRGIN ISLANDS	139
KW6	WAKE ISLAND	298
KX6	MARSHALL ISLANDS	289
KZ5	CANAL ZONE	174
LA	NORWAY, Oslo	37
LI	LIBYA, Tripoli	62
LU	ARGENTINA, Buenos Aires	160
LX	LUXEMBOURG	50
LZ	BULGARIA, Sofia	48
MB9	AUSTRIA, Vienna	48
MD1	CIRENAICA	57
MD2	TRIPOLITANIA	62
MD3	ERITREA, Asmara	57
MD4	BRITISH SOMALILAND	55
MD5	SUEZ CANAL ZONE	51
MD6	IRAQ, Baghdad	42
MF2	TRIESTE (British)	51
MI3	ERITREA, Asmara	57
MP4	BAHREIN ISLANDS and OMAN	42
OA	PERU, Lima	173
OD5	LEBANON, Beyrouth	48
OH	FINLAND, Helsinki	32
OE	AUSTRIA, Vienna	48
OK	CZECHOSLOVAKIA, Prague	46
ON	BELGIUM, Brussels	49
OQ5	BELGIAN CONGO, Elisabethville	86
	Leopoldville	89
	Stanleyville	78
OX	GREENLAND, Godthaab	30
OY	FAEROES ISLANDS	38
OZ	DENMARK, Copenhagen	41
PA	NETHERLANDS, Amsterdam	47
PK	JAVA, Batavia	343
PK4	SUMATRA	355
PK5	BORNEO	333
PK6	CELEBES ISLAND	324
PK7	NETHERLAND NEW GUINEA	302
PX	ANDORRA	59
PY	BRAZIL, Natal	126
	Rio de Janeiro	142
PZ	SURINAM, (Netherland Guiana)	138
SM	SWEDEN, Stockholm	35
SP	POLAND, Warsaw	42
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	62
SU	Egypt, Cairo	52
SV	GREECE, Athens	52
SV5	DODECANESE ISLANDS	51
TA	TURKEY, Ankara	45
TF	ICELAND, Reykjavik	37
TG	GUATEMALA, Guatemala City	195
TI	COSTA RICA	182
TR	LIBYA, Tripoli	62
TT	TANNU TUVA, Kyzyl Khoto	2
U	SOVIET UNION, Moscow	32
UB5	UKRAINE	39
UC5	WHITE RUSSIA	38
UD6	AZERBAIJAN	35
UF6	GEORGIA	40
UG6	ARMENIA	41
UH8	TURKOMAN	40
UI8	UZBEK	23
UJ8	TADZHIK	19
UL7	KAZAKH	20
UM8	KIRGHIZ	24
UN1	KARELO-FINNISH REPUBLIC	27
UO5	MOLDAVIA	41
UP	LITHUANIA	37
UQ	LATVIA	36
UR	ESTONIA	34
VE1	CANADA, Halifax	74
VE2	Montreal	62
VE3	Toronto	73
VE4	Winnipeg	326
VE5	Saskatoon	310
VE6	Edmonton	311
VE7	Vancouver	300
VE8	Fort Nelson	319
VK1	HEARD ISLAND	133
VK2	AUSTRALIA, Sydney	263
VK3	Melbourne	261
VK4	Brisbane	269
VK5	Darwin	304
VK6	Perth	297
VK7	TASMANIA, Hobart	251
VK9	NORFOLK ISLAND	258
	PAPUA TERRITORY, Port Moresby	295
VO	NEWFOUNDLAND, St. John's	66
VP1	BRITISH HONDURAS	191
VP2	LEEWARD and WINDWARD ISLANDS	138
VP3	BRITISH GUIANA, Georgetown	141
VP4	TRINIDAD	143
VP5	JAMAICA	166
VP6	BARBADOS ISLANDS	137
VP7	BAHAMAS ISLANDS	167
VP8	FALKLAND ISLANDS	168
	South Georgia Island	155
	South Orkney Islands	163
VP9	BERMUDA	119
VQ1	ZANZIBAR	73
VQ2	NORTHERN RHODESIA, Lusaka	89
VQ3	TANGANYIKA, Dar-Es-Salaam	75
VQ4	KENYA, Nairobi	71
VQ5	UGANDA	74
VQ6	BRITISH SOMALILAND	55
VQ8	CHAGOS ISLANDS	41
	Mauritius	70
VQ9	SEYCHELLES	58
VR1	GILBERT ISLANDS	280
VR2	FIJI ISLANDS	262
VR3	FANNING ISLAND	265
VR4	SOLOMON ISLANDS	284
VR5	TONGA ISLANDS	255
VR6	PITCAIRN ISLAND	222
VS	MALAYA, Singapore	350
VS4	BRITISH NORTH BORNEO	332
VS5	BRUNEI and SARAWAK	335
VS6	HONG KONG	344
VS7	CEYLON	23
VS9	ADEN, Aden	54
VU	INDIA, Bombay	25
	Calcutta	10
	Delhi	19
VU4	LACCADIVE ISLANDS	31
VU5	ANDAMAN ISLANDS	6
XE	MEXICO, Mexico City	216
XZ	BURMA, Rangoon	1
YA	AFGHANISTAN, Kandahar	25
YI	IRAQ, Baghdad	43
YJ	NEW HEBRIDES	268
YK	SYRIA	45
YN	NICARAGUA, Managua	186
YO	ROMANIA, Bucharest	46
YS	SALVADOR, San Salvador	196
YT	YUGOSLAVIA, Belgrade	48
YV	VENEZUELA, Caracas	151
ZA	ALBANIA, Tirana	51
ZB1	MALTA	60
ZB2	GIBRALTAR	69
ZC1	TRANSJORDAN	50
ZC2	COCOS ISLANDS	357
ZC3	CHRISTMAS ISLAND	343
ZC4	CYPRUS	49
ZD1	SIERRA LEONE, Freetown	98
ZD2	NIGERIA, Lagos	88
ZD3	GAMBIA	97
ZD4	GOLD COAST, Accra	92
ZD6	NYASALAND	85
ZD7	ST. HELENA	112
ZD8	ASENCION ISLAND	112
ZD9	TRISTAN da CUNHA	131
ZE	SOUTHERN RHODESIA, Salisbury	89
ZK1	COOK ISLANDS	250
ZK2	NIUE	253
ZL1	NEW ZEALAND, Auckland	247
ZL2	Wellington	242
ZL3	Christchurch	241
ZL4	Dunedin	239
ZM6	SAMOA (British)	258
ZP	PARAGUAY, Asuncion	156
ZS	UNION OF SOUTH AFRICA, Capetown	110
	Durban	101
	Johannesburg	97
ZS3	SOUTH WEST AFRICA, Windhoek	103
ZS7	SWAZILAND	97
ZS8	BASUTOLAND	102
ZS9	BECHUANALAND	100
3A2	MONACO	55
3V8	TUNISIA, Tunis	60
4X4	ISRAEL	49
5A2	LIBYA	62
9S4	SAARLAND	50

HOUSTON, TEXAS

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	355
AC4	TIBET, Lhasa	353
AG2	TRIESTE	42
AP	PAKISTAN, Karachi	18
C	CHINA, Chungking	338
	Pekin	335
	Shanghai	327
CE	CHILE, Santiago	158
CM	CUBA, Havana	116
CN2	TANGIER ZONE	59
CN8	FRENCH MOROCCO, Casablanca	61
CP	BOLIVIA, La Paz	147
CR4	CAPE VERDE ISLANDS	85
CR5	PORTUGUESE GUINEA	84
CR6	ANGOLA, Nova Lisboa	92
CR7	MOZAMBIQUE, Lourenco Marques	99
	Mocambique	81
CR8	GOA	15
CR9	MACAU	328
CR10	TIMOR ISLAND	289
CT1	PORTUGAL, Lisbon	57
CT2	AZORES	62
CT3	MADERIA ISLANDS	66
CX	URUGUAY, Montevideo	147
DL	GERMANY, Berlin	37
DU	PHILIPPINE ISLANDS, Manila	317
EA	SPAIN, Madrid	53
EA6	BALEARIC ISLANDS	52
EA8	CANARY ISLANDS	70
EA9	SPANISH MOROCCO	58
EI	IRELAND, Dublin	41
EL	LIBERIA, Monrovia	87
EP	IRAN, Tehran	28
ET	ETHIOPIA, Addis Ababa	57
F	FRANCE, Paris	43
FA	ALGERIA, Algiers	58
FB8	MADAGASCAR, Tananarive	82
FC	CORSICA	47
FD8	TOGOLAND	80
FE8	FRENCH CAMEROONS	79
FF8	FRENCH WEST AFRICA, Dakar	83
FG8	GAUDELOUPE	106
FI8	FRENCH INDO CHINA, Saigon	328
FK8	NEW CALEDONIA, Noumea	253
FL8	FRENCH SOMALILAND, Djibouti	57
FM8	MARTINIQUE	108
FO8	FRENCH OCEANIA, Tahiti	235
FP8	MIQUELON and St. PIERRE IS.	50
FQ8	FRENCH EQUATORIAL AFRICA	75
FR8	REUNION ISLAND	79
FT4	TUNISIA, Tunis	51
FU8	NEW HEBRIDES	258
FY8	FRENCH GUIANA, Cayenne	113
G	ENGLAND, London	41
GC	CHANNEL ISLANDS	44
GD	ISLE OF MAN	40
GI	NORTHERN IRELAND, Belfast	40
GM	SCOTLAND, Glasgow	38
GW	WALES	42
HA	HUNGARY, Budapest	39
HB	SWITZERLAND, Bern	43
HC	ECUADOR, Quito	149
HC8	GALAPAGOS ISLANDS	185
HE1	LEICHTENSTEIN	43
HH	HAITI, Port-au-Prince	113
HI	DOMINICAN REPUBLIC	120
HK	COLOMBIA, Bogota	137
HL1	KOREA, Seoul	328
HP	PANAMA	142
HR	HONDURAS, Tegucigalpa	151
HS	SIAM, Bangkok	338
HV	VATICAN CITY	46
HZ	SAUDI ARABIA, Mecca	46
I	ITALY, Rome	46
IS	SARDINIA	49
JA	JAPAN, Tokyo	318
KB6	BAKER ISLAND	266
KC6	CAROLINE ISLANDS	290
KG4	GUANTANAMO BAY, Cuba	114
KG6	GUAM	297
KG6I	IWO JIMA ISLAND	308
KG6S	SAIPAN ISLAND	298
KG6T	TINIAN ISLAND	297
KH6	HAWAIIAN ISLANDS, Honolulu	277
KJ6	JOHNSTON ISLAND	278
KL7	ALASKA, Anchorage	328
	Fairbanks	334
KM6	MIDWAY ISLAND	292
KP4	PUERTO RICO	106
KP6	PALMYRA ISLAND	265
KR6	OKINAWA ISLAND	319
KS4	SWAN ISLAND	136
KS6	SAMOA	251
KV4	VIRGIN ISLANDS	105
KW6	WAKE ISLAND	291
KX6	MARSHALL ISLANDS	280
KZ5	CANAL ZONE	142
LA	NORWAY, Oslo	30
LI	LIBYA, Tripoli	53
LU	ARGENTINA, Buenos Aires	149
LX	LUXEMBOURG	42
LZ	BULGARIA, Sofia	41
MB9	AUSTRIA, Vienna	40
MD1	CIRENAICA	51
MD2	TRIPOLITANIA	53
MD3	ERITREA, Asmara	51
MD4	BRITISH SOMALILAND	49
MD5	SUEZ CANAL ZONE	44
MD6	IRAQ, Baghdad	35
MF2	TRIESTE (British)	42
MI3	ERITREA, Asmara	51
MP4	BAHREIN ISLANDS and OMAN	34
OA	PERU, Lima	154
OD5	LEBANON, Beyrouth	40
OH	FINLAND, Helsinki	26
OE	AUSTRIA, Vienna	40
OK	CZECHOSLOVAKIA, Prague	38
ON	BELGIUM, Brussels	41
OQ5	BELGIAN CONGO, Elisabethville	85
	Leopoldville	84
	Stanleyville	74
OX	GREENLAND, Godthaab	26
OY	FAEROES ISLANDS	32
OZ	DENMARK, Copenhagen	34
PA	NETHERLANDS, Amsterdam	39
PK	JAVA, Batavia	313
PK4	SUMATRA	330
PK5	BORNEO	310
PK6	CELEBES ISLAND	303
PK7	NETHERLAND NEW GUINEA	287
PX	ANDORRA	50
PY	BRAZIL, Natal	112
	Rio de Janeiro	130
PZ	SURINAM, (Netherland Guiana)	114
SM	SWEDEN, Stockholm	29
SP	POLAND, Warsaw	35
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	56
SU	Egypt, Cairo	45
SV	GREECE, Athens	44
SV5	DODECANESE ISLANDS	43
TA	TURKEY, Ankara	38
TF	ICELAND, Reykjavik	31
TG	GUATEMALA, Guatemala City	162
TI	COSTA RICA	150
TR	LIBYA, Tripoli	53
TT	TANNU TUVA, Kyzyl Khoto	354
U	SOVIET UNION, Moscow	25
UB5	UKRAINE	32
UC5	WHITE RUSSIA	31
UD6	AZERBAIJAN	30
UF6	GEORGIA	32
UG6	ARMENIA	34
UH8	TURKOMAN	22
UI8	UZBEK	14
UJ8	TADZHIK	11
UL7	KAZAKH	8
UM8	KIRGHIZ	17
UN1	KARELO-FINNISH REPUBLIC	22
UO5	MOLDAVIA	29
UP	LITHUANIA	31
UQ	LATVIA	29
UR	ESTONIA	27
VE1	CANADA, Halifax	51
VE2	Montreal	41
VE3	Toronto	39
VE4	Winnipeg	357
VE5	Saskatoon	344
VE6	Edmonton	337
VE7	Vancouver	321
VE8	Fort Nelson	335
VK1	HEARD ISLAND	147
VK2	AUSTRALIA, Sydney	247
VK3	Melbourne	244
VK4	Brisbane	254
VK5	Darwin	280
VK6	Perth	257
VK7	TASMANIA, Hobart	237
VK9	NORFOLK ISLAND	248
	PAPUA TERRITORY, Port Moresby	276
VO	NEWFOUNDLAND, St. John's	50
VP1	BRITISH HONDURAS	151
VP2	LEEWARD and WINDWARD ISLANDS	105
VP3	BRITISH GUIANA, Georgetown	116
VP4	TRINIDAD	114
VP5	JAMAICA	122
VP6	BARBADOS ISLANDS	109
VP7	BAHAMAS ISLANDS	103
VP8	FALKLAND ISLANDS	158
	South Georgia Island	151
	South Orkney Islands	159
VP9	BERMUDA	78
VQ1	ZANZIBAR	71
VQ2	NORTHERN RHODESIA, Lusaka	88
VQ3	TANGANYIKA, Dar-Es-Salaam	72
VQ4	KENYA, Nairobi	68
VQ5	UGANDA	69
VQ6	BRITISH SOMALILAND	49
VQ8	CHAGOS ISLANDS	32
	Mauritius	76
VQ9	SEYCHELLES	53
VR1	GILBERT ISLANDS	275
VR2	FIJI ISLANDS	253
VR3	FANNING ISLAND	260
VR4	SOLOMON ISLANDS	270
VR5	TONGA ISLANDS	248
VR6	PITCAIRN ISLAND	215
VS	MALAYA, Singapore	326
VS4	BRITISH NORTH BORNEO	312
VS5	BRUNEI and SARAWAK	315
VS6	HONG KONG	328
VS7	CEYLON	8
VS9	ADEN, Aden	47
VU	INDIA, Bombay	15
	Calcutta	356
	Delhi	8
VU4	LACCADIVE ISLANDS	18
VU5	ANDAMAN ISLANDS	349
XE	MEXICO, Mexico City	199
XZ	BURMA, Rangoon	346
YA	AFGHANISTAN, Kandahar	18
YI	IRAQ, Baghdad	35
YJ	NEW HEBRIDES	258
YK	SYRIA	39
YN	NICARAGUA, Managua	153
YO	ROMANIA, Bucharest	38
YS	SALVADOR, San Salvador	159
YT	YUGOSLAVIA, Belgrade	41
YV	VENEZUELA, Caracas	120
ZA	ALBANIA, Tirana	44
ZB1	MALTA	51
ZB2	GIBRALTAR	58
ZC1	TRANSJORDAN	42
ZC2	COCOS ISLANDS	322
ZC3	CHRISTMAS ISLAND	310
ZC4	CYPRUS	41
ZD1	SIERRA LEONE, Freetown	87
ZD2	NIGERIA, Lagos	80
ZD3	GAMBIA	84
ZD4	GOLD COAST, Accra	83
ZD6	NYASALAND	84
ZD7	ST. HELENA	105
ZD8	ASENCION ISLAND	102
ZD9	TRISTAN da CUNHA	127
ZE	SOUTHERN RHODESIA, Salisbury	90
ZK1	COOK ISLANDS	244
ZK2	NIUE	247
ZL1	NEW ZEALAND, Auckland	237
ZL2	Wellington	233
ZL3	Christchurch	232
ZL4	Dunedin	231
ZM6	SAMOA (British)	252
ZP	PARAGUAY, Asuncion	143
ZS	UNION OF SOUTH AFRICA, Capetown	113
	Durban	105
	Johannesburg	100
ZS3	SOUTH WEST AFRICA, Windhoek	101
ZS7	SWAZILAND	100
ZS8	BASUTOLAND	106
ZS9	BECHUANALAND	98
3A2	MONACO	47
3V8	TUNISIA, Tunis	52
4X4	ISRAEL	42
5A2	LIBYA	52
9S4	SAARLAND	42

JACKSONVILLE, FLA.

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

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AC3	SIKKIM	10
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C	CHINA, Chungking	351
	Pekin	345
	Shanghai	338
CE	CHILE, Santiago	170
CM	CUBA, Havana	185
CN2	TANGIER ZONE	61
CN8	FRENCH MOROCCO, Casablanca	66
CP	BOLIVIA, La Paz	163
CR4	CAPE VERDE ISLANDS	93
CR5	PORTUGUESE GUINEA	92
CR6	ANGOLA, Nova Lisboa	99
CR7	MOZAMBIQUE, Lourenco Marques	105
	Mocambique	89
CR8	GOA	32
CR9	MACAU	343
CR10	TIMOR ISLAND	304
CT1	PORTUGAL, Lisbon	61
CT2	AZORES	65
CT3	MADERIA ISLANDS	70
CX	URUGUAY, Montevideo	158
DL	GERMANY, Berlin	41
DU	PHILIPPINE ISLANDS, Manila	331
EA	SPAIN, Madrid	57
EA6	BALEARIC ISLANDS	56
EA8	CANARY ISLANDS	75
EA9	SPANISH MOROCCO	63
EI	IRELAND, Dublin	44
EL	LIBERIA, Monrovia	95
EP	IRAN, Tehran	38
ET	ETHIOPIA, Addis Ababa	67
F	FRANCE, Paris	47
FA	ALGERIA, Algiers	59
FB8	MADAGASCAR, Tananarive	90
FC	CORSICA	52
FD8	TOGOLAND	89
FE8	FRENCH CAMEROONS	85
FF8	FRENCH WEST AFRICA, Dakar	90
FG8	GAUDELOUPE	122
FI8	FRENCH INDO CHINA, Saigon	349
FK8	NEW CALEDONIA, Noumea	261
FL8	FRENCH SOMALILAND, Djibouti	62
FM8	MARTINIQUE	124
FO8	FRENCH OCEANIA, Tahiti	244
FP8	MIQUELON and St. PIERRE IS.	43
FQ8	FRENCH EQUATORIAL AFRICA	80
FR8	REUNION ISLAND	88
FT4	TUNISIA, Tunis	57
FU8	NEW HEBRIDES	264
FY8	FRENCH GUIANA, Cayenne	127
G	ENGLAND, London	44
GC	CHANNEL ISLANDS	46
GD	ISLE OF MAN	42
GI	NORTHERN IRELAND, Belfast	42
GM	SCOTLAND, Glasgow	40
GW	WALES	44
HA	HUNGARY, Budapest	45
HB	SWITZERLAND, Bern	48
HC	ECUADOR, Quito	174
HC8	GALAPAGOS ISLANDS	220
HE1	LEICHTENSTEIN	49
HH	HAITI, Port-au-Prince	143
HI	DOMINICAN REPUBLIC	136
HK	COLOMBIA, Bogota	163
HL1	KOREA, Seoul	339
HP	PANAMA	177
HR	HONDURAS, Tegucigalpa	200
HS	SIAM, Bangkok	356
HV	VATICAN CITY	51
HZ	SAUDI ARABIA, Mecca	56
I	ITALY, Rome	51
IS	SARDINIA	55
JA	JAPAN, Tokyo	326
KB6	BAKER ISLAND	272
KC6	CAROLINE ISLANDS	298
KG4	GUANTANAMO BAY, Cuba	124
KG6	GUAM	307
KG6I	IWO JIMA ISLAND	318
KG6S	SAIPAN ISLAND	307
KG6T	TINIAN ISLAND	306
KH6	HAWAIIAN ISLANDS, Honolulu	283
KJ6	JOHNSTON ISLAND	284
KL7	ALASKA, Anchorage	326
	Fairbanks	331
KM6	MIDWAY ISLAND	297
KP4	PUERTO RICO	126
KP6	PALMYRA ISLAND	271
KR6	OKINAWA ISLAND	330
KS4	SWAN ISLAND	147
KS6	SAMOA	258
KV4	VIRGIN ISLANDS	123
KW6	WAKE ISLAND	297
KX6	MARSHALL ISLANDS	286
KZ5	CANAL ZONE	177
LA	NORWAY, Oslo	34
LI	LIBYA, Tripoli	59
LU	ARGENTINA, Buenos Aires	160
LX	LUXEMBOURG	45
LZ	BULGARIA, Sofia	47
MB9	AUSTRIA, Vienna	45
MD1	CIRENAICA	57
MD2	TRIPOLITANIA	60
MD3	ERITREA, Asmara	61
MD4	BRITISH SOMALILAND	60
MD5	SUEZ CANAL ZONE	52
MD6	IRAQ, Baghdad	44
MF2	TRIESTE (British)	46
MI3	ERITREA, Asmara	61
MP4	BAHREIN ISLANDS and OMAN	44
OA	PERU, Lima	173
OD5	LEBANON, Beyrouth	48
OH	FINLAND, Helsinki	30
OE	AUSTRIA, Vienna	45
OK	CZECHOSLOVAKIA, Prague	42
ON	BELGIUM, Brussels	44
OQ5	BELGIAN CONGO, Elisabethville	91
	Leopoldville	91
	Stanleyville	82
OX	GREENLAND, Godthaab	21
OY	FAEROES ISLANDS	33
OZ	DENMARK, Copenhagen	37
PA	NETHERLANDS, Amsterdam	42
PK	JAVA, Batavia	339
PK4	SUMATRA	353
PK5	BORNEO	328
PK6	CELEBES ISLAND	319
PK7	NETHERLAND NEW GUINEA	296
PX	ANDORRA	54
PY	BRAZIL, Natal	122
	Rio de Janeiro	141
PZ	SURINAM, (Netherland Guiana)	132
SM	SWEDEN, Stockholm	33
SP	POLAND, Warsaw	39
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	64
SU	Egypt, Cairo	53
SV	GREECE, Athens	51
SV5	DODECANESE ISLANDS	50
TA	TURKEY, Ankara	45
TF	ICELAND, Reykjavik	30
TG	GUATEMALA, Guatemala City	209
TI	COSTA RICA	187
TR	LIBYA, Tripoli	60
TT	TANNU TUVA, Kyzyl Khoto	1
U	SOVIET UNION, Moscow	31
UB5	UKRAINE	36
UC5	WHITE RUSSIA	35
UD6	AZERBAIJAN	34
UF6	GEORGIA	39
UG6	ARMENIA	39
UH8	TURKOMAN	31
UI8	UZBEK	26
UJ8	TADZHIK	22
UL7	KAZAKH	18
UM8	KIRGHIZ	17
UN1	KARELO-FINNISH REPUBLIC	24
UO5	MOLDAVIA	41
UP	LITHUANIA	34
UQ	LATVIA	34
UR	ESTONIA	32
VE1	CANADA, Halifax	40
VE2	Montreal	20
VE3	Toronto	7
VE4	Winnipeg	333
VE5	Saskatoon	327
VE6	Edmonton	324
VE7	Vancouver	313
VE8	Fort Nelson	328
VK1	HEARD ISLAND	148
VK2	AUSTRALIA, Sydney	251
VK3	Melbourne	245
VK4	Brisbane	259
VK5	Darwin	292
VK6	Perth	259
VK7	TASMANIA, Hobart	258
VK9	NORFOLK ISLAND	252
	PAPUA TERRITORY, Port Moresby	286
VO	NEWFOUNDLAND, St. John's	45
VP1	BRITISH HONDURAS	209
VP2	LEEWARD and WINDWARD ISLANDS	130
VP3	BRITISH GUIANA, Georgetown	133
VP4	TRINIDAD	132
VP5	JAMAICA	157
VP6	BARBADOS ISLANDS	123
VP7	BAHAMAS ISLANDS	141
VP8	FALKLAND ISLANDS	170
	South Georgia Island	117
	South Orkney Islands	164
VP9	BERMUDA	80
VQ1	ZANZIBAR	80
VQ2	NORTHERN RHODESIA, Lusaka	95
VQ3	TANGANYIKA, Dar-Es-Salaam	81
VQ4	KENYA, Nairobi	77
VQ5	UGANDA	78
VQ6	BRITISH SOMALILAND	60
VQ8	CHAGOS ISLANDS	53
	Mauritius	86
VQ9	SEYCHELLES	67
VR1	GILBERT ISLANDS	278
VR2	FIJI ISLANDS	259
VR3	FANNING ISLAND	267
VR4	SOLOMON ISLANDS	278
VR5	TONGA ISLANDS	255
VR6	PITCAIRN ISLAND	226
VS	MALAYA, Singapore	350
VS4	BRITISH NORTH BORNEO	328
VS5	BRUNEI and SARAWAK	332
VS6	HONG KONG	342
VS7	CEYLON	28
VS9	ADEN, Aden	58
VU	INDIA, Bombay	30
	Calcutta	12
	Delhi	22
VU4	LACCADIVE ISLANDS	36
VU5	ANDAMAN ISLANDS	7
XE	MEXICO, Mexico City	239
XZ	BURMA, Rangoon	2
YA	AFGHANISTAN, Kandahar	30
YI	IRAQ, Baghdad	43
YJ	NEW HEBRIDES	264
YK	SYRIA	46
YN	NICARAGUA, Managua	196
YO	ROMANIA, Bucharest	44
YS	SALVADOR, San Salvador	205
YT	YUGOSLAVIA, Belgrade	47
YV	VENEZUELA, Caracas	142
ZA	ALBANIA, Tirana	50
ZB1	MALTA	57
ZB2	GIBRALTAR	63
ZC1	TRANSJORDAN	51
ZC2	COCOS ISLANDS	1
ZC3	CHRISTMAS ISLAND	338
ZC4	CYPRUS	48
ZD1	SIERRA LEONE, Freetown	94
ZD2	NIGERIA, Lagos	87
ZD3	GAMBIA	91
ZD4	GOLD COAST, Accra	90
ZD6	NYASALAND	92
ZD7	ST. HELENA	112
ZD8	ASENCION ISLAND	110
ZD9	TRISTAN da CUNHA	133
ZE	SOUTHERN RHODESIA, Salisbury	97
ZK1	COOK ISLANDS	251
ZK2	NIUE	253
ZL1	NEW ZEALAND, Auckland	242
ZL2	Wellington	243
ZL3	Christchurch	241
ZL4	Dunedin	235
ZM6	SAMOA (British)	258
ZP	PARAGUAY, Asuncion	155
ZS	UNION OF SOUTH AFRICA, Capetown	117
	Durban	109
	Johannesburg	105
ZS3	SOUTH WEST AFRICA, Windhoek	108
ZS7	SWAZILAND	106
ZS8	BASUTOLAND	110
ZS9	BECHUANALAND	105
3A2	MONACO	52
3V8	TUNISIA, Tunis	57
4X4	ISRAEL	51
5A2	LIBYA	60
9S4	SAARLAND	145

LOUISVILLE, KENTUCKY

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	5
AC4	TIBET, Lhasa	3
AG2	TRIESTE	48
AP	PAKISTAN, Karachi	25
C	CHINA, Chungking	348
	Pekin	344
	Shanghai	336
CE	CHILE, Santiago	167
CM	CUBA, Havana	168
CN2	TANGIER ZONE	65
CN8	FRENCH MOROCCO, Casablanca	69
CP	BOLIVIA, La Paz	160
CR4	CAPE VERDE ISLANDS	95
CR5	PORTUGUESE GUINEA	93
CR6	ANGOLA, Nova Lisboa	94
CR7	MOZAMBIQUE, Lourenco Marques	97
	Mocambique	81
CR8	GOA	24
CR9	MACAU	340
CR10	TIMOR ISLAND	307
CT1	PORTUGAL, Lisbon	64
CT2	AZORES	72
CT3	MADERIA ISLANDS	74
CX	URUGUAY, Montevideo	156
DL	GERMANY, Berlin	42
DU	PHILIPPINE ISLANDS, Manila	329
EA	SPAIN, Madrid	60
EA6	BALEARIC ISLANDS	58
EA8	CANARY ISLANDS	78
EA9	SPANISH MOROCCO	65
EI	IRELAND, Dublin	47
EL	LIBERIA, Monrovia	95
EP	IRAN, Tehran	34
ET	ETHIOPIA, Addis Ababa	61
F	FRANCE, Paris	49
FA	ALGERIA, Algiers	61
FB8	MADAGASCAR, Tananarive	79
FC	CORSICA	53
FD8	TOGOLAND	87
FE8	FRENCH CAMEROONS	83
FF8	FRENCH WEST AFRICA, Dakar	92
FG8	GAUDELOUPE	129
FI8	FRENCH INDO CHINA, Saigon	344
FK8	NEW CALEDONIA, Noumea	262
FL8	FRENCH SOMALILAND, Djibouti	56
FM8	MARTINIQUE	130
FO8	FRENCH OCEANIA, Tahiti	240
FP8	MIQUELON and St. PIERRE IS.	59
FQ8	FRENCH EQUATORIAL AFRICA	87
FR8	REUNION ISLAND	76
FT4	TUNISIA, Tunis	57
FU8	NEW HEBRIDES	265
FY8	FRENCH GUIANA, Cayenne	131
G	ENGLAND, London	47
GC	CHANNEL ISLANDS	50
GD	ISLE OF MAN	45
GI	NORTHERN IRELAND, Belfast	45
GM	SCOTLAND, Glasgow	43
GW	WALES	47
HA	HUNGARY, Budapest	44
HB	SWITZERLAND, Bern	49
HC	ECUADOR, Quito	168
HC8	GALAPAGOS ISLANDS	191
HE1	LEICHTENSTEIN	48
HH	HAITI, Port-au-Prince	145
HI	DOMINICAN REPUBLIC	140
HK	COLOMBIA, Bogota	160
HL1	KOREA, Seoul	335
HP	PANAMA	168
HR	HONDURAS, Tegucigalpa	183
HS	SIAM, Bangkok	352
HV	VATICAN CITY	51
HZ	SAUDI ARABIA, Mecca	52
I	ITALY, Rome	51
IS	SARDINIA	55
JA	JAPAN, Tokyo	324
KB6	BAKER ISLAND	271
KC6	CAROLINE ISLANDS	300
KG4	GUANTANAMO BAY, Cuba	150
KG6	GUAM	306
KG6I	IWO JIMA ISLAND	317
KG6S	SAIPAN ISLAND	307
KG6T	TINIAN ISLAND	308
KH6	HAWAIIAN ISLANDS, Honolulu	277
KJ6	JOHNSTON ISLAND	280
KL7	ALASKA, Anchorage	322
	Fairbanks	328
KM6	MIDWAY ISLAND	294
KP4	PUERTO RICO	134
KP6	PALMYRA ISLAND	267
KR6	OKINAWA ISLAND	328
KS4	SWAN ISLAND	175
KS6	SAMOA	257
KV4	VIRGIN ISLANDS	130
KW6	WAKE ISLAND	296
KX6	MARSHALL ISLANDS	285
KZ5	CANAL ZONE	168
LA	NORWAY, Oslo	35
LI	LIBYA, Tripoli	59
LU	ARGENTINA, Buenos Aires	157
LX	LUXEMBOURG	47
LZ	BULGARIA, Sofia	46
MB9	AUSTRIA, Vienna	45
MD1	CIRENAICA	56
MD2	TRIPOLITANIA	59
MD3	ERITREA, Asmara	57
MD4	BRITISH SOMALILAND	55
MD5	SUEZ CANAL ZONE	50
MD6	IRAQ, Baghdad	41
MF2	TRIESTE (British)	48
MI3	ERITREA, Asmara	57
MP4	BAHREIN ISLANDS and OMAN	40
OA	PERU, Lima	169
OD5	LEBANON, Beyrouth	46
OH	FINLAND, Helsinki	30
OE	AUSTRIA, Vienna	45
OK	CZECHOSLOVAKIA, Prague	43
ON	BELGIUM, Brussels	46
OQ5	BELGIAN CONGO, Elisabethville	86
	Leopoldville	88
	Stanleyville	77
OX	GREENLAND, Godthaab	28
OY	FAEROES ISLANDS	36
OZ	DENMARK, Copenhagen	39
PA	NETHERLANDS, Amsterdam	44
PK	JAVA, Batavia	337
PK4	SUMATRA	350
PK5	BORNEO	330
PK6	CELEBES ISLAND	320
PK7	NETHERLAND NEW GUINEA	300
PX	ANDORRA	56
PY	BRAZIL, Natal	122
	Rio de Janeiro	139
PZ	SURINAM, (Netherland Guiana)	132
SM	SWEDEN, Stockholm	33
SP	POLAND, Warsaw	39
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	61
SU	Egypt, Cairo	50
SV	GREECE, Athens	50
SV5	DODECANESE ISLANDS	49
TA	TURKEY, Ankara	43
TF	ICELAND, Reykjavik	34
TG	GUATEMALA, Guatemala City	191
TI	COSTA RICA	176
TR	LIBYA, Tripoli	59
TT	TANNU TUVA, Kyzyl Khoto	0
U	SOVIET UNION, Moscow	30
UB5	UKRAINE	36
UC5	WHITE RUSSIA	37
UD6	AZERBAIJAN	33
UF6	GEORGIA	36
UG6	ARMENIA	36
UH8	TURKOMAN	28
UI8	UZBEK	22
UJ8	TADZHIK	18
UL7	KAZAKH	19
UM8	KIRGHIZ	18
UN1	KARELO-FINNISH REPUBLIC	25
UO5	MOLDAVIA	29
UP	LITHUANIA	36
UQ	LATVIA	34
UR	ESTONIA	32
VE1	CANADA, Halifax	61
VE2	Montreal	47
VE3	Toronto	38
VE4	Winnipeg	328
VE5	Saskatoon	320
VE6	Edmonton	318
VE7	Vancouver	305
VE8	Fort Nelson	323
VK1	HEARD ISLAND	42
VK2	AUSTRALIA, Sydney	257
VK3	Melbourne	255
VK4	Brisbane	264
VK5	Darwin	297
VK6	Perth	283
VK7	TASMANIA, Hobart	246
VK9	NORFOLK ISLAND	255
	PAPUA TERRITORY, Port Moresby	286
VO	NEWFOUNDLAND, St. John's	59
VP1	BRITISH HONDURAS	187
VP2	LEEWARD and WINDWARD ISLANDS	129
VP3	BRITISH GUIANA, Georgetown	135
VP4	TRINIDAD	105
VP5	JAMAICA	157
VP6	BARBADOS ISLANDS	130
VP7	BAHAMAS ISLANDS	149
VP8	FALKLAND ISLANDS	164
	South Georgia Island	154
	South Orkney Islands	162
VP9	BERMUDA	104
VQ1	ZANZIBAR	73
VQ2	NORTHERN RHODESIA, Lusaka	89
VQ3	TANGANYIKA, Dar-Es-Salaam	74
VQ4	KENYA, Nairobi	71
VQ5	UGANDA	73
VQ6	BRITISH SOMALILAND	55
VQ8	CHAGOS ISLANDS	41
	Mauritius	73
VQ9	SEYCHELLES	57
VR1	GILBERT ISLANDS	286
VR2	FIJI ISLANDS	260
VR3	FANNING ISLAND	264
VR4	SOLOMON ISLANDS	280
VR5	TONGA ISLANDS	254
VR6	PITCAIRN ISLAND	220
VS	MALAYA, Singapore	345
VS4	BRITISH NORTH BORNEO	329
VS5	BRUNEI and SARAWAK	331
VS6	HONG KONG	340
VS7	CEYLON	20
VS9	ADEN, Aden	53
VU	INDIA, Bombay	23
	Calcutta	6
	Delhi	17
VU4	LACCADIVE ISLANDS	29
VU5	ANDAMAN ISLANDS	3
XE	MEXICO, Mexico City	215
XZ	BURMA, Rangoon	358
YA	AFGHANISTAN, Kandahar	25
YI	IRAQ, Baghdad	40
YJ	NEW HEBRIDES	266
YK	SYRIA	44
YN	NICARAGUA, Managua	182
YO	ROMANIA, Bucharest	44
YS	SALVADOR, San Salvador	188
YT	YUGOSLAVIA, Belgrade	46
YV	VENEZUELA, Caracas	144
ZA	ALBANIA, Tirana	49
ZB1	MALTA	57
ZB2	GIBRALTAR	65
ZC1	TRANSJORDAN	48
ZC2	COCOS ISLANDS	352
ZC3	CHRISTMAS ISLAND	337
ZC4	CYPRUS	46
ZD1	SIERRA LEONE, Freetown	95
ZD2	NIGERIA, Lagos	86
ZD3	GAMBIA	93
ZD4	GOLD COAST, Accra	89
ZD6	NYASALAND	85
ZD7	ST. HELENA	110
ZD8	ASENCION ISLAND	109
ZD9	TRISTAN da CUNHA	130
ZE	SOUTHERN RHODESIA, Salisbury	90
ZK1	COOK ISLANDS	248
ZK2	NIUE	252
ZL1	NEW ZEALAND, Auckland	244
ZL2	Wellington	241
ZL3	Christchurch	240
ZL4	Dunedin	237
ZM6	SAMOA (British)	257
ZP	PARAGUAY, Asuncion	153
ZS	UNION OF SOUTH AFRICA, Capetown	111
	Durban	102
	Johannesburg	98
ZS3	SOUTH WEST AFRICA, Windhoek	102
ZS7	SWAZILAND	98
ZS8	BASUTOLAND	104
ZS9	BECHUANALAND	97
3A2	MONACO	53
3V8	TUNISIA, Tunis	57
4X4	ISRAEL	47
5A2	LIBYA	59
9S4	SAARLAND	47

MIAMI, FLORIDA

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	11
AC4	TIBET, Lhasa	9
AG2	TRIESTE	46
AP	PAKISTAN, Karachi	35
C	CHINA, Chungking	355
	Pekin	346
	Shanghai	339
CE	CHILE, Santiago	171
CM	CUBA, Havana	217
CN2	TANGIER ZONE	61
CN8	FRENCH MOROCCO, Casablanca	64
CP	BOLIVIA, La Paz	163
CR4	CAPE VERDE ISLANDS	88
CR5	PORTUGUESE GUINEA	90
CR6	ANGOLA, Nova Lisboa	99
CR7	MOZAMBIQUE, Lourenco Marques	107
	Mocambique	92
CR8	GOA	34
CR9	MACAU	344
CR10	TIMOR ISLAND	299
CT1	PORTUGAL, Lisbon	58
CT2	AZORES	61
CT3	MADERIA ISLANDS	67
CX	URUGUAY, Montevideo	158
DL	GERMANY, Berlin	41
DU	PHILIPPINE ISLANDS, Manila	331
EA	SPAIN, Madrid	56
EA6	BALEARIC ISLANDS	55
EA8	CANARY ISLANDS	72
EA9	SPANISH MOROCCO	64
EI	IRELAND, Dublin	42
EL	LIBERIA, Monrovia	93
EP	IRAN, Tehran	38
ET	ETHIOPIA, Addis Ababa	99
F	FRANCE, Paris	46
FA	ALGERIA, Algiers	58
FB8	MADAGASCAR, Tananarive	94
FC	CORSICA	51
FD8	TOGOLAND	86
FE8	FRENCH CAMEROONS	88
FF8	FRENCH WEST AFRICA, Dakar	87
FG8	GAUDELOUPE	114
FI8	FRENCH INDO CHINA, Saigon	349
FK8	NEW CALEDONIA, Noumea	259
FL8	FRENCH SOMALILAND, Djibouti	64
FM8	MARTINIQUE	117
FO8	FRENCH OCEANIA, Tahiti	246
FP8	MIQUELON and St. PIERRE IS	36
FQ8	FRENCH EQUATORIAL AFRICA	80
FR8	REUNION ISLAND	94
FT4	TUNISIA, Tunis	56
FU8	NEW HEBRIDES	265
FY8	FRENCH GUIANA, Cayenne	123
G	ENGLAND, London	43
GC	CHANNEL ISLANDS	45
GD	ISLE OF MAN	41
GI	NORTHERN IRELAND, Belfast	40
GM	SCOTLAND, Glasgow	39
GW	WALES	42
HA	HUNGARY, Budapest	44
HB	SWITZERLAND, Bern	47
HC	ECUADOR, Quito	176
HC8	GALAPAGOS ISLANDS	215
HE1	LEICHTENSTEIN	46
HH	HAITI, Port-au-Prince	131
HI	DOMINICAN REPUBLIC	122
HK	COLOMBIA, Bogota	163
HL1	KOREA, Seoul	337
HP	PANAMA	178
HR	HONDURAS, Tegucigalpa	212
HS	SIAM, Bangkok	359
HV	VATICAN CITY	50
HZ	SAUDI ARABIA, Mecca	57
I	ITALY, Rome	50
IS	SARDINIA	53
JA	JAPAN, Tokyo	327
KB6	BAKER ISLAND	274
KC6	CAROLINE ISLANDS	297
KG4	GUANTANAMO BAY, Cuba	145
KG6	GUAM	307
KG6I	IWO JIMA ISLAND	319
KG6S	SAIPAN ISLAND	308
KG6T	TINIAN ISLAND	308
KH6	HAWAIIAN ISLANDS, Honolulu	285
KJ6	JOHNSTON ISLAND	286
KL7	ALASKA, Anchorage	328
	Fairbanks	332
KM6	MIDWAY ISLAND	300
KP4	PUERTO RICO	115
KP6	PALMYRA ISLAND	273
KR6	OKINAWA ISLAND	330
KS4	SWAN ISLAND	206
KS6	SAMOA	258
KV4	VIRGIN ISLANDS	110
KW6	WAKE ISLAND	298
KX6	MARSHALL ISLANDS	288
KZ5	CANAL ZONE	177
LA	NORWAY, Oslo	33
LI	LIBYA, Tripoli	59
LU	ARGENTINA, Buenos Aires	160
LX	LUXEMBOURG	43
LZ	BULGARIA, Sofia	46
MB9	AUSTRIA, Vienna	42
MD1	CIRENAICA	56
MD2	TRIPOLITANIA	58
MD3	ERITREA, Asmara	62
MD4	BRITISH SOMALILAND	63
MD5	SUEZ CANAL ZONE	53
MD6	IRAQ, Baghdad	44
MF2	TRIESTE (British)	46
MI3	ERITREA, Asmara	62
MP4	BAHREIN ISLANDS and OMAN	45
OA	PERU, Lima	175
OD5	LEBANON, Beyrouth	48
OH	FINLAND, Helsinki	30
OE	AUSTRIA, Vienna	42
OK	CZECHOSLOVAKIA, Prague	42
ON	BELGIUM, Brussels	43
OQ5	BELGIAN CONGO, Elisabethville	93
	Leopoldville	92
	Stanleyville	83
OX	GREENLAND, Godthaab	17
OY	FAEROES ISLANDS	31
OZ	DENMARK, Copenhagen	37
PA	NETHERLANDS, Amsterdam	41
PK	JAVA, Batavia	338
PK4	SUMATRA	357
PK5	BORNEO	330
PK6	CELEBES ISLAND	316
PK7	NETHERLAND NEW GUINEA	294
PX	ANDORRA	52
PY	BRAZIL, Natal	120
	Rio de Janeiro	140
PZ	SURINAM, (Netherland Guiana)	125
SM	SWEDEN, Stockholm	32
SP	POLAND, Warsaw	38
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	66
SU	Egypt, Cairo	54
SV	GREECE, Athens	50
SV5	DODECANESE ISLANDS	50
TA	TURKEY, Ankara	44
TF	ICELAND, Reykjavik	27
TG	GUATEMALA, Guatemala City	223
TI	COSTA RICA	194
TR	LIBYA, Tripoli	88
TT	TANNU TUVA, Kyzyl Khoto	3
U	SOVIET UNION, Moscow	30
UB5	UKRAINE	39
UC5	WHITE RUSSIA	35
UD6	AZERBAIJAN	36
UF6	GEORGIA	39
UG6	ARMENIA	37
UH8	TURKOMAN	33
UI8	UZBEK	32
UJ8	TADZHIK	30
UL7	KAZAKH	26
UM8	KIRGHIZ	24
UN1	KARELO-FINNISH REPUBLIC	25
UO5	MOLDAVIA	39
UP	LITHUANIA	35
UQ	LATVIA	33
UR	ESTONIA	30
VE1	CANADA, Halifax	31
VE2	Montreal	13
VE3	Toronto	1
VE4	Winnipeg	335
VE5	Saskatoon	332
VE6	Edmonton	327
VE7	Vancouver	317
VE8	Fort Nelson	330
VK1	HEARD ISLAND	152
VK2	AUSTRALIA, Sydney	247
VK3	Melbourne	242
VK4	Brisbane	255
VK5	Darwin	287
VK6	Perth	245
VK7	TASMANIA, Hobart	234
VK9	NORFOLK ISLAND	250
	PAPUA TERRITORY, Port Moresby	280
VO	NEWFOUNDLAND, St. John's	32
VP1	BRITISH HONDURAS	224
VP2	LEEWARD and WINDWARD ISLANDS	120
VP3	BRITISH GUIANA, Georgetown	129
VP4	TRINIDAD	125
VP5	JAMAICA	164
VP6	BARBADOS ISLANDS	118
VP7	BAHAMAS ISLANDS	109
VP8	FALKLAND ISLANDS	168
	South Georgia Island	157
	South Orkney Islands	164
VP9	BERMUDA	59
VQ1	ZANZIBAR	82
VQ2	NORTHERN RHODESIA, Lusaka	96
VQ3	TANGANYIKA, Dar-Es-Salaam	84
VQ4	KENYA, Nairobi	79
VQ5	UGANDA	78
VQ6	BRITISH SOMALILAND	63
VQ8	CHAGOS ISLANDS	58
	Mauritius	92
VQ9	SEYCHELLES	72
VR1	GILBERT ISLANDS	280
VR2	FIJI ISLANDS	259
VR3	FANNING ISLAND	270
VR4	SOLOMON ISLANDS	280
VR5	TONGA ISLANDS	255
VR6	PITCAIRN ISLAND	228
VS	MALAYA, Singapore	351
VS4	BRITISH NORTH BORNEO	328
VS5	BRUNEI and SARAWAK	332
VS6	HONG KONG	343
VS7	CEYLON	32
VS9	ADEN, Aden	61
VU	INDIA, Bombay	33
	Calcutta	13
	Delhi	23
VU4	LACCADIVE ISLANDS	39
VU5	ANDAMAN ISLANDS	11
XE	MEXICO, Mexico City	254
XZ	BURMA, Rangoon	5
YA	AFGHANISTAN, Kandahar	31
YI	IRAQ, Baghdad	45
YJ	NEW HEBRIDES	260
YK	SYRIA	46
YN	NICARAGUA, Managua	216
YO	ROMANIA, Bucharest	44
YS	SALVADOR, San Salvador	215
YT	YUGOSLAVIA, Belgrade	45
YV	VENEZUELA, Caracas	138
ZA	ALBANIA, Tirana	49
ZB1	MALTA	56
ZB2	GIBRALTAR	61
ZC1	TRANSJORDAN	50
ZC2	COCOS ISLANDS	5
ZC3	CHRISTMAS ISLAND	267
ZC4	CYPRUS	49
ZD1	SIERRA LEONE, Freetown	92
ZD2	NIGERIA, Lagos	87
ZD3	GAMBIA	88
ZD4	GOLD COAST, Accra	90
ZD6	NYASALAND	94
ZD7	ST. HELENA	109
ZD8	ASENCION ISLAND	108
ZD9	TRISTAN da CUNHA	130
ZE	SOUTHERN RHODESIA, Salisbury	99
ZK1	COOK ISLANDS	247
ZK2	NIUE	254
ZL1	NEW ZEALAND, Auckland	240
ZL2	Wellington	235
ZL3	Christchurch	233
ZL4	Dunedin	231
ZM6	SAMOA (British)	259
ZP	PARAGUAY, Asuncion	155
ZS	UNION OF SOUTH AFRICA, Capetown	118
	Durban	112
	Johannesburg	108
ZS3	SOUTH WEST AFRICA, Windhoek	108
ZS7	SWAZILAND	108
ZS8	BASUTOLAND	112
ZS9	BECHUANALAND	105
3A2	MONACO	50
3V8	TUNISIA, Tunis	56
4X4	ISRAEL	51
5A2	LIBYA	60
9S4	SAARLAND	46

MINNEAPOLIS, MINN.

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	357
AC4	TIBET, Lhasa	355
AG2	TRIESTE	46
AP	PAKISTAN, Karachi	18
C	CHINA, Chungking	342
	Pekin	340
	Shanghai	331
CE	CHILE, Santiago	161
CM	CUBA, Havana	154
CN2	TANGIER ZONE	66
CN8	FRENCH MOROCCO, Casablanca	69
CP	BOLIVIA, La Paz	153
CR4	CAPE VERDE ISLANDS	95
CR5	PORTUGUESE GUINEA	92
CR6	ANGOLA, Nova Lisboa	97
CR7	MOZAMBIQUE, Lourenco Marques	96
	Mocambique	69
CR8	GOA	13
CR9	MACAU	333
CR10	TIMOR ISLAND	304
CT1	PORTUGAL, Lisbon	65
CT2	AZORES	74
CT3	MADERIA ISLANDS	75
CX	URUGUAY, Montevideo	150
DL	GERMANY, Berlin	42
DU	PHILIPPINE ISLANDS, Manila	324
EA	SPAIN, Madrid	59
EA6	BALEARIC ISLANDS	58
EA8	CANARY ISLANDS	78
EA9	SPANISH MOROCCO	66
EI	IRELAND, Dublin	49
EL	LIBERIA, Monrovia	92
EP	IRAN, Tehran	29
ET	ETHIOPIA, Addis Ababa	53
F	FRANCE, Paris	49
FA	ALGERIA, Algiers	60
FB8	MADAGASCAR, Tananarive	58
FC	CORSICA	52
FD8	TOGOLAND	82
FE8	FRENCH CAMEROONS	77
FF8	FRENCH WEST AFRICA, Dakar	90
FG8	GAUDELOUPE	128
FI8	FRENCH INDO CHINA, Saigon	336
FK8	NEW CALEDONIA, Noumea	260
FL8	FRENCH SOMALILAND, Djibouti	48
FM8	MARTINIQUE	129
FO8	FRENCH OCEANIA, Tahiti	233
FP8	MIQUELON and St. PIERRE IS.	74
FQ8	FRENCH EQUATORIAL AFRICA	75
FR8	REUNION ISLAND	59
FT4	TUNISIA, Tunis	56
FU8	NEW HEBRIDES	262
FY8	FRENCH GUIANA, Cayenne	127
G	ENGLAND, London	47
GC	CHANNEL ISLANDS	51
GD	ISLE OF MAN	46
GI	NORTHERN IRELAND, Belfast	47
GM	SCOTLAND, Glasgow	45
GW	WALES	48
HA	HUNGARY, Budapest	42
HB	SWITZERLAND, Bern	48
HC	ECUADOR, Quito	160
HC8	GALAPAGOS ISLANDS	177
HE1	LEICHTENSTEIN	47
HH	HAITI, Port-au-Prince	139
HI	DOMINICAN REPUBLIC	135
HK	COLOMBIA, Bogota	152
HL1	KOREA, Seoul	329
HP	PANAMA	164
HR	HONDURAS, Tegucigalpa	171
HS	SIAM, Bangkok	344
HV	VATICAN CITY	49
HZ	SAUDI ARABIA, Mecca	45
I	ITALY, Rome	49
IS	SARDINIA	52
JA	JAPAN, Tokyo	319
KB6	BAKER ISLAND	265
KC6	CAROLINE ISLANDS	290
KG4	GUANTANAMO BAY, Cuba	142
KG6	GUAM	302
KG6I	IWO JIMA ISLAND	312
KG6S	SAIPAN ISLAND	302
KG6T	TINIAN ISLAND	302
KH6	HAWAIIAN ISLANDS, Honolulu	270
KJ6	JOHNSTON ISLAND	273
KL7	ALASKA, Anchorage	317
	Fairbanks	324

Prefix	Country	Bearing
KM6	MIDWAY ISLAND	286
KP4	PUERTO RICO	131
KP6	PALMYRA ISLAND	260
KR6	OKINAWA ISLAND	323
KS4	SWAN ISLAND	166
KS6	SAMOA	252
KV4	VIRGIN ISLANDS	128
KW6	WAKE ISLAND	290
KX6	MARSHALL ISLANDS	280
KZ5	CANAL ZONE	164
LA	NORWAY, Oslo	35
LI	LIBYA, Tripoli	56
LU	ARGENTINA, Buenos Aires	152
LX	LUXEMBOURG	46
LZ	BULGARIA, Sofia	43
MB9	AUSTRIA, Vienna	44
MD1	CIRENAICA	51
MD2	TRIPOLITANIA	56
MD3	ERITREA, Asmara	48
MD4	BRITISH SOMALILAND	45
MD5	SUEZ CANAL ZONE	45
MD6	IRAQ, Baghdad	35
MF2	TRIESTE (British)	46
MI3	ERITREA, Asmara	48
MP4	BAHREIN ISLANDS and OMAN	33
OA	PERU, Lima	161
OD5	LEBANON, Beyrouth	41
OH	FINLAND, Helsinki	29
OE	AUSTRIA, Vienna	43
OK	CZECHOSLOVAKIA, Prague	42
ON	BELGIUM, Brussels	46
OQ5	BELGIAN CONGO, Elisabethville	77
	Leopoldville	80
	Stanleyville	69
OX	GREENLAND, Godthaab	36
OY	FAEROES ISLANDS	38
OZ	DENMARK, Copenhagen	38
PA	NETHERLANDS, Amsterdam	44
PK	JAVA, Batavia	329
PK4	SUMATRA	340
PK5	BORNEO	314
PK6	CELEBES ISLAND	315
PK7	NETHERLAND NEW GUINEA	296
PX	ANDORRA	55
PY	BRAZIL, Natal	119
	Rio de Janeiro	134
PZ	SURINAM, (Netherland Guiana)	129
SM	SWEDEN, Stockholm	33
SP	POLAND, Warsaw	38
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	54
SU	Egypt, Cairo	46
SV	GREECE, Athens	46
SV5	DODECANESE ISLANDS	45
TA	TURKEY, Ankara	39
TF	ICELAND, Reykjavik	38
TG	GUATEMALA, Guatemala City	175
TI	COSTA RICA	164
TR	LIBYA, Tripoli	56
TT	TANNU TUVA, Kyzyl Khoto	355
U	SOVIET UNION, Moscow	28
UB5	UKRAINE	34
UC5	WHITE RUSSIA	33
UD6	AZERBAIJAN	28
UF6	GEORGIA	31
UG6	ARMENIA	31
UH8	TURKOMAN	24
UI8	UZBEK	15
UJ8	TADZHIK	11
UL7	KAZAKH	10
UM8	KIRGHIZ	7
UN1	KARELO-FINNISH REPUBLIC	22
UO5	MOLDAVIA	38
UP	LITHUANIA	34
UQ	LATVIA	33
UR	ESTONIA	31
VE1	CANADA, Halifax	81
VE2	Montreal	81
VE3	Toronto	88
VE4	Winnipeg	335
VE5	Saskatoon	316
VE6	Edmonton	312
VE7	Vancouver	294
VE8	Fort Nelson	319
VK1	HEARD ISLAND	138
VK2	AUSTRALIA, Sydney	259
VK3	Melbourne	258
VK4	Brisbane	265
VK5	Darwin	296

Prefix	Country	Bearing
VK6	Perth	289
VK7	TASMANIA, Hobart	250
VK9	NORFOLK ISLAND	253
	PAPUA TERRITORY, Port Moresby	284
VO	NEWFOUNDLAND, St. John's	70
VP1	BRITISH HONDURAS	170
VP2	LEEWARD and WINDWARD ISLANDS	127
VP3	BRITISH GUIANA, Georgetown	132
VP4	TRINIDAD	131
VP5	JAMAICA	147
VP6	BARBADOS ISLANDS	127
VP7	BAHAMAS ISLANDS	143
VP8	FALKLAND ISLANDS	155
	South Georgia Island	150
	South Orkney Islands	145
VP9	BERMUDA	110
VQ1	ZANZIBAR	62
VQ2	NORTHERN RHODESIA, Lusaka	80
VQ3	TANGANYIKA, Dar-Es-Salaam	64
VQ4	KENYA, Nairobi	62
VQ5	UGANDA	64
VQ6	BRITISH SOMALILAND	46
VQ8	CHAGOS ISLANDS	26
	Mauritius	55
VQ9	SEYCHELLES	44
VR1	GILBERT ISLANDS	275
VR2	FIJI ISLANDS	256
VR3	FANNING ISLAND	255
VR4	SOLOMON ISLANDS	277
VR5	TONGA ISLANDS	250
VR6	PITCAIRN ISLAND	215
VS	MALAYA, Singapore	337
VS4	BRITISH NORTH BORNEO	322
VS5	BRUNEI and SARAWAK	324
VS6	HONG KONG	333
VS7	CEYLON	7
VS9	ADEN, Aden	43
VU	INDIA, Bombay	15
	Calcutta	359
	Delhi	10
VU4	LACCADIVE ISLANDS	18
VU5	ANDAMAN ISLANDS	354
XE	MEXICO, Mexico City	193
XZ	BURMA, Rangoon	351
YA	AFGHANISTAN, Kandahar	18
YI	IRAQ, Baghdad	35
YJ	NEW HEBRIDES	262
YK	SYRIA	39
YN	NICARAGUA, Managua	168
YO	ROMANIA, Bucharest	41
YS	SALVADOR, San Salvador	174
YT	YUGOSLAVIA, Belgrade	44
YV	VENEZUELA, Caracas	139
ZA	ALBANIA, Tirana	47
ZB1	MALTA	54
ZB2	GIBRALTAR	65
ZC1	TRANSJORDAN	42
ZC2	COCOS ISLANDS	338
ZC3	CHRISTMAS ISLAND	326
ZC4	CYPRUS	42
ZD1	SIERRA LEONE, Freetown	91
ZD2	NIGERIA, Lagos	81
ZD3	GAMBIA	90
ZD4	GOLD COAST, Accra	95
ZD6	NYASALAND	74
ZD7	ST. HELENA	104
ZD8	ASENCION ISLAND	104
ZD9	TRISTAN da CUNHA	124
ZE	SOUTHERN RHODESIA, Salisbury	79
ZK1	COOK ISLANDS	240
ZK2	NIUE	247
ZL1	NEW ZEALAND, Auckland	243
ZL2	Wellington	238
ZL3	Christchurch	237
ZL4	Dunedin	236
ZM6	SAMOA (British)	250
ZP	PARAGUAY, Asuncion	147
ZS	UNION OF SOUTH AFRICA, Capetown	103
	Durban	92
	Johannesburg	90
ZS3	SOUTH WEST AFRICA, Windhoek	94
ZS7	SWAZILAND	87
ZS8	BASUTOLAND	93
ZS9	BECHUANALAND	88
3A2	MONACO	51
3V8	TUNISIA, Tunis	55
4X4	ISRAEL	41
5A2	LIBYA	55
9S4	SAARLAND	46

NEW ORLEANS, LA.

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	1
AC4	TIBET, Lhasa	358
AG2	TRIESTE	45
AP	PAKISTAN, Karachi	23
C	CHINA, Chungking	344
	Pekin	339
	Shanghai	331
CE	CHILE, Santiago	162
CM	CUBA, Havana	133
CN2	TANGIER ZONE	61
CN8	FRENCH MOROCCO, Casablanca	63
CP	BOLIVIA, La Paz	152
CR4	CAPE VERDE ISLANDS	88
CR5	PORTUGUESE GUINEA	88
CR6	ANGOLA, Nova Lisboa	95
CR7	MOZAMBIQUE, Lourenco Marques	101
	Mocambique	84
CR8	GOA	21
CR9	MACAU	334
CR10	TIMOR ISLAND	294
CT1	PORTUGAL, Lisbon	58
CT2	AZORES	64
CT3	MADERIA ISLANDS	68
CX	URUGUAY, Montevideo	151
DL	GERMANY, Berlin	39
DU	PHILIPPINE ISLANDS, Manila	322
EA	SPAIN, Madrid	55
EA6	BALEARIC ISLANDS	54
EA8	CANARY ISLANDS	72
EA9	SPANISH MOROCCO	61
EI	IRELAND, Dublin	43
EL	LIBERIA, Monrovia	90
EP	IRAN, Tehran	32
ET	ETHIOPIA, Addis Ababa	61
F	FRANCE, Paris	45
FA	ALGERIA, Algiers	57
FB8	MADAGASCAR, Tananarive	84
FC	CORSICA	50
FD8	TOGOLAND	83
FE8	FRENCH CAMEROONS	82
FF8	FRENCH WEST AFRICA, Dakar	86
FG8	GAUDELOUPE	112
FI8	FRENCH INDO CHINA, Saigon	335
FK8	NEW CALEDONIA, Noumea	256
FL8	FRENCH SOMALILAND, Djibouti	56
FM8	MARTINIQUE	114
FO8	FRENCH OCEANIA, Tahiti	239
FP8	MIQUELON and St. PIERRE IS	49
FQ8	FRENCH EQUATORIAL AFRICA	75
FR8	REUNION ISLAND	83
FT4	TUNISIA, Tunis	54
FU8	NEW HEBRIDES	260
FY8	FRENCH GUIANA, Cayenne	119
G	ENGLAND, London	43
GC	CHANNEL ISLANDS	47
GD	ISLE OF MAN	41
GI	NORTHERN IRELAND, Belfast	41
GM	SCOTLAND, Glasgow	39
GW	WALES	43
HA	HUNGARY, Budapest	42
HB	SWITZERLAND, Bern	45
HC	ECUADOR, Quito	158
HC8	GALAPAGOS ISLANDS	185
HE1	LEICHTENSTEIN	45
HH	HAITI, Port-au-Prince	122
HI	DOMINICAN REPUBLIC	118
HK	COLOMBIA, Bogota	146
HL1	KOREA, Seoul	330
HP	PANAMA	152
HR	HONDURAS, Tegucigalpa	169
HS	SIAM, Bangkok	345
HV	VATICAN CITY	48
HZ	SAUDI ARABIA, Mecca	51
I	ITALY, Rome	48
IS	SARDINIA	52
JA	JAPAN, Tokyo	321
KB6	BAKER ISLAND	269
KC6	CAROLINE ISLANDS	293
KG4	GUANTANAMO BAY, Cuba	124
KG6	GUAM	301
KG6I	IWO JIMA ISLAND	312
KG6S	SAIPAN ISLAND	301
KG6T	TINIAN ISLAND	300
KH6	HAWAIIAN ISLANDS, Honolulu	279
KJ6	JOHNSTON ISLAND	280
KL7	ALASKA, Anchorage	327
	Fairbanks	332

Prefix	Country	Bearing
KM6	MIDWAY ISLAND	294
KP4	PUERTO RICO	112
KP6	PALMYRA ISLAND	267
KR6	OKINAWA ISLAND	323
KS4	SWAN ISLAND	152
KS6	SAMOA	253
KV4	VIRGIN ISLANDS	110
KW6	WAKE ISLAND	293
KX6	MARSHALL ISLANDS	285
KZ5	CANAL ZONE	153
LA	NORWAY, Oslo	32
LI	LIBYA, Tripoli	56
LU	ARGENTINA, Buenos Aires	153
LX	LUXEMBOURG	43
LZ	BULGARIA, Sofia	43
MB9	AUSTRIA, Vienna	42
MD1	CIRENAICA	53
MD2	TRIPOLITANIA	56
MD3	ERITREA, Asmara	55
MD4	BRITISH SOMALILAND	54
MD5	SUEZ CANAL ZONE	48
MD6	IRAQ, Baghdad	38
MF2	TRIESTE (British)	45
MI3	ERITREA, Asmara	55
MP4	BAHREIN ISLANDS and OMAN	38
OA	PERU, Lima	161
OD5	LEBANON, Beyrouth	43
OH	FINLAND, Helsinki	28
OE	AUSTRIA, Vienna	42
OK	CZECHOSLOVAKIA, Prague	40
ON	BELGIUM, Brussels	42
OQ5	BELGIAN CONGO, Elisabethville	87
	Leopoldville	87
	Stanleyville	77
OX	GREENLAND, Godthaab	25
OY	FAEROES ISLANDS	32
OZ	DENMARK, Copenhagen	35
PA	NETHERLANDS, Amsterdam	40
PK	JAVA, Batavia	222
PK4	SUMATRA	338
PK5	BORNEO	315
PK6	CELEBES ISLAND	308
PK7	NETHERLAND NEW GUINEA	290
PX	ANDORRA	52
PY	BRAZIL, Natal	115
	Rio de Janeiro	135
PZ	SURINAM, (Netherland Guiana)	120
SM	SWEDEN, Stockholm	30
SP	POLAND, Warsaw	37
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	60
SU	Egypt, Cairo	48
SV	GREECE, Athens	47
SV5	DODECANESE ISLANDS	48
TA	TURKEY, Ankara	41
TF	ICELAND, Reykjavik	31
TG	GUATEMALA, Guatemala City	182
TI	COSTA RICA	163
TR	LIBYA, Tripoli	56
TT	TANNU TUVA, Kyzyl Khoto	358
U	SOVIET UNION, Moscow	27
UB5	UKRAINE	33
UC5	WHITE RUSSIA	32
UD6	AZERBAIJAN	31
UF6	GEORGIA	33
UG6	ARMENIA	33
UH8	TURKOMAN	25
UI8	UZBEK	18
UJ8	TADZHIK	14
UL7	KAZAKH	15
UM8	KIRGHIZ	13
UN1	KARELO-FINNISH REPUBLIC	22
UO5	MOLDAVIA	37
UP	LITHUANIA	32
UQ	LATVIA	31
UR	ESTONIA	29
VE1	CANADA, Halifax	48
VE2	Montreal	35
VE3	Toronto	28
VE4	Winnipeg	346
VE5	Saskatoon	335
VE6	Edmonton	330
VE7	Vancouver	317
VE8	Fort Nelson	332
VK1	HEARD ISLAND	145
VK2	AUSTRALIA, Sydney	249
VK3	Melbourne	244
VK4	Brisbane	255
VK5	Darwin	285

Prefix	Country	Bearing
VK6	Perth	259
VK7	TASMANIA, Hobart	238
VK9	NORFOLK ISLAND	249
	PAPUA TERRITORY, Port Moresby	278
VO	NEWFOUNDLAND, St. John's	48
VP1	BRITISH HONDURAS	172
VP2	LEEWARD and WINDWARD ISLANDS	111
VP3	BRITISH GUIANA, Georgetown	122
VP4	TRINIDAD	120
VP5	JAMAICA	134
VP6	BARBADOS ISLANDS	114
VP7	BAHAMAS ISLANDS	112
VP8	FALKLAND ISLANDS	162
	South Georgia Island	152
	South Orkney Islands	160
VP9	BERMUDA	79
VQ1	ZANZIBAR	75
VQ2	NORTHERN RHODESIA, Lusaka	91
VQ3	TANGANYIKA, Dar-Es-Salaam	76
VQ4	KENYA, Nairobi	72
VQ5	UGANDA	73
VQ6	BRITISH SOMALILAND	55
VQ8	CHAGOS ISLANDS	43
	Mauritius	80
VQ9	SEYCHELLES	60
VR1	GILBERT ISLANDS	275
VR2	FIJI ISLANDS	255
VR3	FANNING ISLAND	263
VR4	SOLOMON ISLANDS	275
VR5	TONGA ISLANDS	250
VR6	PITCAIRN ISLAND	220
VS	MALAYA, Singapore	334
VS4	BRITISH NORTH BORNEO	318
VS5	BRUNEI and SARAWAK	321
VS6	HONG KONG	333
VS7	CEYLON	14
VS9	ADEN, Aden	52
VU	INDIA, Bombay	21
	Calcutta	2
	Delhi	14
VU4	LACCADIVE ISLANDS	26
VU5	ANDAMAN ISLANDS	257
XE	MEXICO, Mexico City	220
XZ	BURMA, Rangoon	352
YA	AFGHANISTAN, Kandahar	18
YI	IRAQ, Baghdad	38
YJ	NEW HEBRIDES	259
YK	SYRIA	42
YN	NICARAGUA, Managua	168
YO	ROMANIA, Bucharest	41
YS	SALVADOR, San Salvador	177
YT	YUGOSLAVIA, Belgrade	43
YV	VENEZUELA, Caracas	127
ZA	ALBANIA, Tirana	46
ZB1	MALTA	54
ZB2	GIBRALTAR	60
ZC1	TRANSJORDAN	46
ZC2	COCOS ISLANDS	335
ZC3	CHRISTMAS ISLAND	319
ZC4	CYPRUS	44
ZD1	SIERRA LEONE, Freetown	91
ZD2	NIGERIA, Lagos	83
ZD3	GAMBIA	87
ZD4	GOLD COAST, Accra	86
ZD6	NYASALAND	88
ZD7	ST. HELENA	118
ZD8	ASENCION ISLAND	105
ZD9	TRISTAN da CUNHA	129
ZE	SOUTHERN RHODESIA, Salisbury	93
ZK1	COOK ISLANDS	244
ZK2	NIUE	248
ZL1	NEW ZEALAND, Auckland	239
ZL2	Wellington	235
ZL3	Christchurch	233
ZL4	Dunedin	231
ZM6	SAMOA (British)	254
ZP	PARAGUAY, Asuncion	147
ZS	UNION OF SOUTH AFRICA, Capetown	114
	Durban	106
	Johannesburg	102
ZS3	SOUTH WEST AFRICA, Windhoek	104
ZS7	SWAZILAND	102
ZS8	BASUTOLAND	107
ZS9	BECHUANALAND	100
3A2	MONACO	49
3V8	TUNISIA, Tunis	54
4X4	ISRAEL	46
5A2	LIBYA	57
9S4	SAARLAND	43

NORFOLK, VIRGINIA

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	15
AC4	TIBET, Lhasa	12
AG2	TRIESTE	51
AP	PAKISTAN, Karachi	36
C	CHINA, Chungking	344
	Pekin	352
	Shanghai	0
CE	CHILE, Santiago	175
CM	CUBA, Havana	203
CN2	TANGIER ZONE	69
CN8	FRENCH MOROCCO, Casablanca	72
CP	BOLIVIA, La Paz	170
CR4	CAPE VERDE ISLANDS	100
CR5	PORTUGUESE GUINEA	99
CR6	ANGOLA, Nova Lisboa	100
CR7	MOZAMBIQUE, Lourenco Marques	103
	Mocambique	88
CR8	GOA	34
CR9	MACAU	350
CR10	TIMOR ISLAND	319
CT1	PORTUGAL, Lisbon	66
CT2	AZORES	73
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DL	GERMANY, Berlin	44
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EA	SPAIN, Madrid	62
EA6	BALEARIC ISLANDS	61
EA8	CANARY ISLANDS	81
EA9	SPANISH MOROCCO	68
EI	IRELAND, Dublin	47
EL	LIBERIA, Monrovia	100
EP	IRAN, Tehran	40
ET	ETHIOPIA, Addis Ababa	68
F	FRANCE, Paris	51
FA	ALGERIA, Algiers	64
FB8	MADAGASCAR, Tananarive	87
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FD8	TOGOLAND	93
FE8	FRENCH CAMEROONS	89
FF8	FRENCH WEST AFRICA, Dakar	97
FG8	GAUDELOUPE	144
FI8	FRENCH INDO CHINA, Saigon	356
FK8	NEW CALEDONIA, Noumea	267
FL8	FRENCH SOMALILAND, Djibouti	33
FM8	MARTINIQUE	145
FO8	FRENCH OCEANIA, Tahiti	245
FP8	MIQUELON and St. PIERRE IS	50
FQ8	FRENCH EQUATORIAL AFRICA	89
FR8	REUNION ISLAND	85
FT4	TUNISIA, Tunis	61
FU8	NEW HEBRIDES	269
FY8	FRENCH GUIANA, Cayenne	139
G	ENGLAND, London	48
GC	CHANNEL ISLANDS	51
GD	ISLE OF MAN	47
GI	NORTHERN IRELAND, Belfast	46
GM	SCOTLAND, Glasgow	44
GW	WALES	48
HA	HUNGARY, Budapest	48
HB	SWITZERLAND, Bern	51
HC	ECUADOR, Quito	184
HC8	GALAPAGOS ISLANDS	205
HE1	LEICHTENSTEIN	51
HH	HAITI, Port-au-Prince	166
HI	DOMINICAN REPUBLIC	120
HK	COLOMBIA, Bogota	176
HL1	KOREA, Seoul	341
HP	PANAMA	188
HR	HONDURAS, Tegucigalpa	205
HS	SIAM, Bangkok	3
HV	VATICAN CITY	55
HZ	SAUDI ARABIA, Mecca	58
I	ITALY, Rome	55
IS	SARDINIA	58
JA	JAPAN, Tokyo	331
KB6	BAKER ISLAND	276
KC6	CAROLINE ISLANDS	303
KG4	GUANTANAMO BAY, Cuba	175
KG6	GUAM	313
KG6I	IWO JIMA ISLAND	323
KG6S	SAIPAN ISLAND	314
KG6T	TINIAN ISLAND	314
KH6	HAWAIIAN ISLANDS, Honolulu	283
KJ6	JOHNSTON ISLAND	285
KL7	ALASKA, Anchorage	323
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Prefix	Country	Bearing
KM6	MIDWAY ISLAND	299
KP4	PUERTO RICO	151
KP6	PALMYRA ISLAND	273
KR6	OKINAWA ISLAND	336
KS4	SWAN ISLAND	199
KS6	SAMOA	262
KV4	VIRGIN ISLANDS	145
KW6	WAKE ISLAND	301
KX6	MARSHALL ISLANDS	290
KZ5	CANAL ZONE	182
LA	NORWAY, Oslo	36
LI	LIBYA, Tripoli	64
LU	ARGENTINA, Buenos Aires	165
LX	LUXEMBOURG	49
LZ	BULGARIA, Sofia	50
MB9	AUSTRIA, Vienna	48
MD1	CIRENAICA	59
MD2	TRIPOLITANIA	64
MD3	ERITREA, Asmara	63
MD4	BRITISH SOMALILAND	62
MD5	SUEZ CANAL ZONE	55
MD6	IRAQ, Baghdad	46
MF2	TRIESTE (British)	51
MI3	ERITREA, Asmara	63
MP4	BAHREIN ISLANDS and OMAN	47
OA	PERU, Lima	181
OD5	LEBANON, Beyrouth	52
OH	FINLAND, Helsinki	33
OE	AUSTRIA, Vienna	48
OK	CZECHOSLOVAKIA, Prague	46
ON	BELGIUM, Brussels	48
OQ5	BELGIAN CONGO, Elisabethville	92
	Leopoldville	94
	Stanleyville	84
OX	GREENLAND, Godthaab	21
OY	FAEROES ISLANDS	36
OZ	DENMARK, Copenhagen	41
PA	NETHERLANDS, Amsterdam	46
PK	JAVA, Batavia	354
PK4	SUMATRA	5
PK5	BORNEO	344
PK6	CELEBES ISLAND	332
PK7	NETHERLAND NEW GUINEA	305
PX	ANDORRA	58
PY	BRAZIL, Natal	129
	Rio de Janeiro	147
PZ	SURINAM, (Netherland Guiana)	143
SM	SWEDEN, Stockholm	36
SP	POLAND, Warsaw	42
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	68
SU	Egypt, Cairo	56
SV	GREECE, Athens	54
SV5	DODECANESE ISLANDS	53
TA	TURKEY, Ankara	48
TF	ICELAND, Reykjavik	32
TG	GUATEMALA, Guatemala City	213
TI	COSTA RICA	197
TR	LIBYA, Tripoli	64
TT	TANNU TUVA, Kyzyl Khoto	6
U	SOVIET UNION, Moscow	33
UB5	UKRAINE	42
UC5	WHITE RUSSIA	38
UD6	AZERBAIJAN	39
UF6	GEORGIA	42
UG6	ARMENIA	40
UH8	TURKOMAN	36
UI8	UZBEK	35
UJ8	TADZHIK	33
UL7	KAZAKH	29
UM8	KIRGHIZ	27
UN1	KARELO-FINNISH REPUBLIC	28
UO5	MOLDAVIA	42
UP	LITHUANIA	39
UQ	LATVIA	37
UR	ESTONIA	34
VE1	CANADA, Halifax	47
VE2	Montreal	12
VE3	Toronto	341
VE4	Winnipeg	321
VE5	Saskatoon	316
VE6	Edmonton	315
VE7	Vancouver	306
VE8	Fort Nelson	322
VK1	HEARD ISLAND	138
VK2	AUSTRALIA, Sydney	260
VK3	Melbourne	255
VK4	Brisbane	267
VK5	Darwin	306

Prefix	Country	Bearing
VK6	Perth	291
VK7	TASMANIA, Hobart	245
VK9	NORFOLK ISLAND	258
	PAPUA TERRITORY, Port Moresby	297
VO	NEWFOUNDLAND, St. John's	52
VP1	BRITISH HONDURAS	210
VP2	LEEWARD and WINDWARD ISLANDS	144
VP3	BRITISH GUIANA, Georgetown	146
VP4	TRINIDAD	138
VP5	JAMAICA	182
VP6	BARBADOS ISLANDS	143
VP7	BAHAMAS ISLANDS	184
VP8	FALKLAND ISLANDS	170
	South Georgia Island	159
	South Orkney Islands	166
VP9	BERMUDA	113
VQ1	ZANZIBAR	80
VQ2	NORTHERN RHODESIA, Lusaka	95
VQ3	TANGANYIKA, Dar-Es-Salaam	82
VQ4	KENYA, Nairobi	78
VQ5	UGANDA	79
VQ6	BRITISH SOMALILAND	62
VQ8	CHAGOS ISLANDS	53
	Mauritius	82
VQ9	SEYCHELLES	68
VR1	GILBERT ISLANDS	283
VR2	FIJI ISLANDS	264
VR3	FANNING ISLAND	269
VR4	SOLOMON ISLANDS	285
VR5	TONGA ISLANDS	258
VR6	PITCAIRN ISLAND	228
VS	MALAYA, Singapore	359
VS4	BRITISH NORTH BORNEO	339
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VS6	HONG KONG	350
VS7	CEYLON	32
VS9	ADEN, Aden	60
VU	INDIA, Bombay	33
	Calcutta	16
	Delhi	25
VU4	LACCADIVE ISLANDS	39
VU5	ANDAMAN ISLANDS	15
XE	MEXICO, Mexico City	235
XZ	BURMA, Rangoon	10
YA	AFGHANISTAN, Kandahar	33
YI	IRAQ, Baghdad	41
YJ	NEW HEBRIDES	269
YK	SYRIA	50
YN	NICARAGUA, Managua	202
YO	ROMANIA, Bucharest	48
YS	SALVADOR, San Salvador	215
YT	YUGOSLAVIA, Belgrade	50
YV	VENEZUELA, Caracas	160
ZA	ALBANIA, Tirana	53
ZB1	MALTA	61
ZB2	GIBRALTAR	68
ZC1	TRANSJORDAN	54
ZC2	COCOS ISLANDS	13
ZC3	CHRISTMAS ISLAND	267
ZC4	CYPRUS	52
ZD1	SIERRA LEONE, Freetown	100
ZD2	NIGERIA, Lagos	91
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ZE	SOUTHERN RHODESIA, Salisbury	96
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ZL3	Christchurch	239
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ZM6	SAMOA (British)	262
ZP	PARAGUAY, Asuncion	161
ZS	UNION OF SOUTH AFRICA, Capetown	116
	Durban	108
	Johannesburg	104
ZS3	SOUTH WEST AFRICA, Windhoek	108
ZS7	SWAZILAND	104
ZS8	BASUTOLAND	109
ZS9	BECHUANALAND	103
3A2	MONACO	55
3V8	TUNISIA, Tunis	61
4X4	ISRAEL	53
5A2	LIBYA	60
9S4	SAARLAND	49

SEATTLE, WASHINGTON

The table below shows the great circle bearing in degrees from the point as indicated above to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U.S. Coast and Geodetic Survey.

Prefix	Country	Bearing
AC3	SIKKIM	333
AC4	TIBET, Lhasa	331
AG2	TRIESTE	30
AP	PAKISTAN, Karachi	352
C	CHINA, Chungking	320
	Pekin	319
	Shanghai	309
CE	CHILE, Santiago	139
CM	CUBA, Havana	113
CN2	TANGIER ZONE	48
CN8	FRENCH MOROCCO, Casablanca	51
CP	BOLIVIA, La Paz	128
CR4	CAPE VERDE ISLANDS	74
CR5	PORTUGUESE GUINEA	70
CR6	ANGOLA, Nova Lisboa	61
CR7	MOZAMBIQUE, Lourenco Marques	53
	Mocambique	31
CR8	GOA	344
CR9	MACAU	311
CR10	TIMOR ISLAND	280
CT1	PORTUGAL, Lisbon	45
CT2	AZORES	59
CT3	MADERIA ISLANDS	58
CX	URUGUAY, Montevideo	130
DL	GERMANY, Berlin	27
DU	PHILIPPINE ISLANDS, Manila	300
EA	SPAIN, Madrid	43
EA6	BALEARIC ISLANDS	41
EA8	CANARY ISLANDS	60
EA9	SPANISH MOROCCO	48
EI	IRELAND, Dublin	56
EL	LIBERIA, Monrovia	70
EP	IRAN, Tehran	6
ET	ETHIOPIA, Addis Ababa	23
F	FRANCE, Paris	35
FA	ALGERIA, Algiers	42
FB8	MADAGASCAR, Tananarive	22
FC	CORSICA	35
FD8	TOGOLAND	58
FE8	FRENCH CAMEROONS	53
FF8	FRENCH WEST AFRICA, Dakar	70
FG8	GAUDELOUPE	102
FI8	FRENCH INDO CHINA, Saigon	309
FK8	NEW CALEDONIA, Noumea	242
FL8	FRENCH SOMALILAND, Djibouti	18
FM8	MARTINIQUE	102
FO8	FRENCH OCEANIA, Tahiti	208
FP8	MIQUELON and St. PIERRE IS.	66
FQ8	FRENCH EQUATORIAL AFRICA	50
FR8	REUNION ISLAND	7
FT4	TUNISIA, Tunis	37
FU8	NEW HEBRIDES	240
FY8	FRENCH GUIANA, Cayenne	102
G	ENGLAND, London	34
GC	CHANNEL ISLANDS	37
GD	ISLE OF MAN	35
GI	NORTHERN IRELAND, Belfast	36
GM	SCOTLAND, Glasgow	34
GW	WALES	36
HA	HUNGARY, Budapest	26
HB	SWITZERLAND, Bern	33
HC	ECUADOR, Quito	128
HC8	GALAPAGOS ISLANDS	142
HE1	LEICHTENSTEIN	32
HH	HAITI, Port-au-Prince	108
HI	DOMINICAN REPUBLIC	106
HK	COLOMBIA, Bogota	120
HL1	KOREA, Seoul	310
HP	PANAMA	124
HR	HONDURAS, Tegucigalpa	127
HS	SIAM, Bangkok	316
HV	VATICAN CITY	32
HZ	SAUDI ARABIA, Mecca	18
I	ITALY, Rome	32
IS	SARDINIA	36
JA	JAPAN, Tokyo	301
KB6	BAKER ISLAND	242
KC6	CAROLINE ISLANDS	270
KG4	GUANTANAMO BAY, Cuba	110
KG6	GUAM	281
KG6I	IWO JIMA ISLAND	291
KG6S	SAIPAN ISLAND	281
KG6T	TINIAN ISLAND	281
KH6	HAWAIIAN ISLANDS, Honolulu	240
KJ6	JOHNSTON ISLAND	249
KL7	ALASKA, Anchorage	321
	Fairbanks	330
KM6	MIDWAY ISLAND	266
KP4	PUERTO RICO	104
KP6	PALMYRA ISLAND	239
KR6	OKINAWA ISLAND	302
KS4	SWAN ISLAND	122
KS6	SAMOA	230
KV4	VIRGIN ISLANDS	102
KW6	WAKE ISLAND	270
KX6	MARSHALL ISLANDS	260
KZ5	CANAL ZONE	124
LA	NORWAY, Oslo	24
LI	LIBYA, Tripoli	37
LU	ARGENTINA, Buenos Aires	131
LX	LUXEMBOURG	32
LZ	BULGARIA, Sofia	25
MB9	AUSTRIA, Vienna	28
MD1	CIRENAICA	30
MD2	TRIPOLITANIA	37
MD3	ERITREA, Asmara	20
MD4	BRITISH SOMALILAND	15
MD5	SUEZ CANAL ZONE	23
MD6	IRAQ, Baghdad	12
MF2	TRIESTE (British)	30
MI3	ERITREA, Asmara	20
MP4	BAHREIN ISLANDS and OMAN	18
OA	PERU, Lima	133
OD5	LEBANON, Beyrouth	19
OH	FINLAND, Helsinki	17
OE	AUSTRIA, Vienna	28
OK	CZECHOSLOVAKIA, Prague	27
ON	BELGIUM, Brussels	32
OQ5	BELGIAN CONGO, Elisabethville	48
	Leopoldville	55
	Stanleyville	42
OX	GREENLAND, Godthaab	40
OY	FAEROES ISLANDS	30
OZ	DENMARK, Copenhagen	25
PA	NETHERLANDS, Amsterdam	31
PK	JAVA, Batavia	297
PK4	SUMATRA	305
PK5	BORNEO	295
PK6	CELEBES ISLAND	288
PK7	NETHERLAND NEW GUINEA	274
PX	ANDORRA	40
PY	BRAZIL, Natal	98
	Rio de Janeiro	113
PZ	SURINAM, (Netherland Guiana)	105
SM	SWEDEN, Stockholm	20
SP	POLAND, Warsaw	23
ST	ANGLO-EGYPTIAN SUDAN, Khartoum	27
SU	Egypt, Cairo	23
SV	GREECE, Athens	27
SV5	DODECANESE ISLANDS	27
TA	TURKEY, Ankara	19
TF	ICELAND, Reykjavik	33
TG	GUATEMALA, Guatemala City	131
TI	COSTA RICA	127
TR	LIBYA, Tripoli	37
TT	TANNU TUVA, Kyzyl Khoto	338
U	SOVIET UNION, Moscow	12
UB5	UKRAINE	17
UC5	WHITE RUSSIA	18
UD6	AZERBAIJAN	7
UF6	GEORGIA	11
UG6	ARMENIA	13
UH8	TURKOMAN	1
UI8	UZBEK	356
UJ8	TADZHIK	350
UL7	KAZAKH	355
UM8	KIRGHIZ	357
UN1	KARELO-FINNISH REPUBLIC	13
UO5	MOLDAVIA	21
UP	LITHUANIA	19
UQ	LATVIA	18
UR	ESTONIA	17
VE1	CANADA, Halifax	72
VE2	Montreal	75
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VK4	Brisbane	246
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VK7	TASMANIA, Hobart	237
VK9	NORFOLK ISLAND	235
	PAPUA TERRITORY, Port Moresby	263
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VP1	BRITISH HONDURAS	128
VP2	LEEWARD and WINDWARD ISLANDS	101
VP3	BRITISH GUIANA, Georgetown	107
VP4	TRINIDAD	106
VP5	JAMAICA	114
VP6	BARBADOS ISLANDS	103
VP7	BAHAMAS ISLANDS	108
VP8	FALKLAND ISLANDS	143
	South Georgia Island	135
	South Orkney Islands	145
VP9	BERMUDA	90
VQ1	ZANZIBAR	28
VQ2	NORTHERN RHODESIA, Lusaka	49
VQ3	TANGANYIKA, Dar-Es-Salaam	29
VQ4	KENYA, Nairobi	30
VQ5	UGANDA	34
VQ6	BRITISH SOMALILAND	15
VQ8	CHAGOS ISLANDS	341
	Mauritius	2
VQ9	SEYCHELLES	4
VR1	GILBERT ISLANDS	250
VR2	FIJI ISLANDS	235
VR3	FANNING ISLAND	228
VR4	SOLOMON ISLANDS	255
VR5	TONGA ISLANDS	228
VR6	PITCAIRN ISLAND	186
VS	MALAYA, Singapore	306
VS4	BRITISH NORTH BORNEO	295
VS5	BRUNEI and SARAWAK	298
VS6	HONG KONG	310
VS7	CEYLON	333
VS9	ADEN, Aden	13
VU	INDIA, Bombay	345
	Calcutta	330
	Delhi	342
VU4	LACCADIVE ISLANDS	343
VU5	ANDAMAN ISLANDS	323
XE	MEXICO, Mexico City	138
XZ	BURMA, Rangoon	321
YA	AFGHANISTAN, Kandahar	350
YI	IRAQ, Baghdad	11
YJ	NEW HEBRIDES	241
YK	SYRIA	17
YN	NICARAGUA, Managua	129
YO	ROMANIA, Bucharest	23
YS	SALVADOR, San Salvador	130
YT	YUGOSLAVIA, Belgrade	27
YV	VENEZUELA, Caracas	110
ZA	ALBANIA, Tirana	29
ZB1	MALTA	35
ZB2	GIBRALTAR	48
ZC1	TRANSJORDAN	21
ZC2	COCOS ISLANDS	292
ZC3	CHRISTMAS ISLAND	295
ZC4	CYPRUS	20
ZD1	SIERRA LEONE, Freetown	70
ZD2	NIGERIA, Lagos	58
ZD3	GAMBIA	70
ZD4	GOLD COAST, Accra	62
ZD6	NYASALAND	40
ZD7	ST. HELENA	83
ZD8	ASENCION ISLAND	84
ZD9	TRISTAN da CUNHA	107
ZE	SOUTHERN RHODESIA, Salisbury	47
ZK1	COOK ISLANDS	215
ZK2	NIUE	234
ZL1	NEW ZEALAND, Auckland	227
ZL2	Wellington	223
ZL3	Christchurch	223
ZL4	Dunedin	223
ZM6	SAMOA (British)	230
ZP	PARAGUAY, Asuncion	125
ZS	UNION OF SOUTH AFRICA, Capetown	79
	Durban	62
	Johannesburg	58
ZS3	SOUTH WEST AFRICA, Windhoek	69
ZS7	SWAZILAND	55
ZS8	BASUTOLAND	64
ZS9	BECHUANALAND	58
3A2	MONACO	35
3V8	TUNISIA, Tunis	37
4X4	ISRAEL	20
5A2	LIBYA	35
9S4	SAARLAND	3[illegible]

DX CONTEST OR FIELD DAY LOG

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		SENT	RECEIVED			

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		SENT	RECEIVED			

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		SENT	RECEIVED			

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DATE TIME	STATION	NUMBER		COUNTRY OR SECTION	ZONE	POINTS
		SENT	RECEIVED			

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DATE TIME	STATION	NUMBER		COUNTRY OR SECTION	ZONE	POINTS
		SENT	RECEIVED			

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DATE TIME	STATION	NUMBER		COUNTRY OR SECTION	ZONE	POINTS
		SENT	RECEIVED			

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PAGE **CALL** **FREQUENCY**

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		SENT	RECEIVED			

RADIO AMATEUR

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WORLD WIDE QSL BUREAUS
GREAT CIRCLE BEARINGS
TIME CONVERSION CHART
OFFICIAL ARRL COUNTRIES LIST
AIR LINE DISTANCES
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RADIO AMATEUR PREFIX MAPS
DX CONTEST LOG
COMPASS FOR BEAM INDICATOR
STANDARD TIME THROUGHOUT THE WORLD
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ARRL SECTION MAP

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